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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO).

SOUTH AMERICA AND SELECTED ISLAND COASTAL MARINE AREAS,
EAST COAST.

VOLUME 2.

AREA 9 - RIO DE JANEIRO.
AREA 10 - FLORIANOPOLIS.
AREA 11 - PORTO ALEGRE.
AREA 12 - BUENOS AIRES.
AREA 13 - BAHIA BLANCA.
AREA 14 - RAWSON,
AREA 15 - PUERTO DESEADO,
AREA 16 - MAGELLAN STRAIT EAST.



PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR
THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

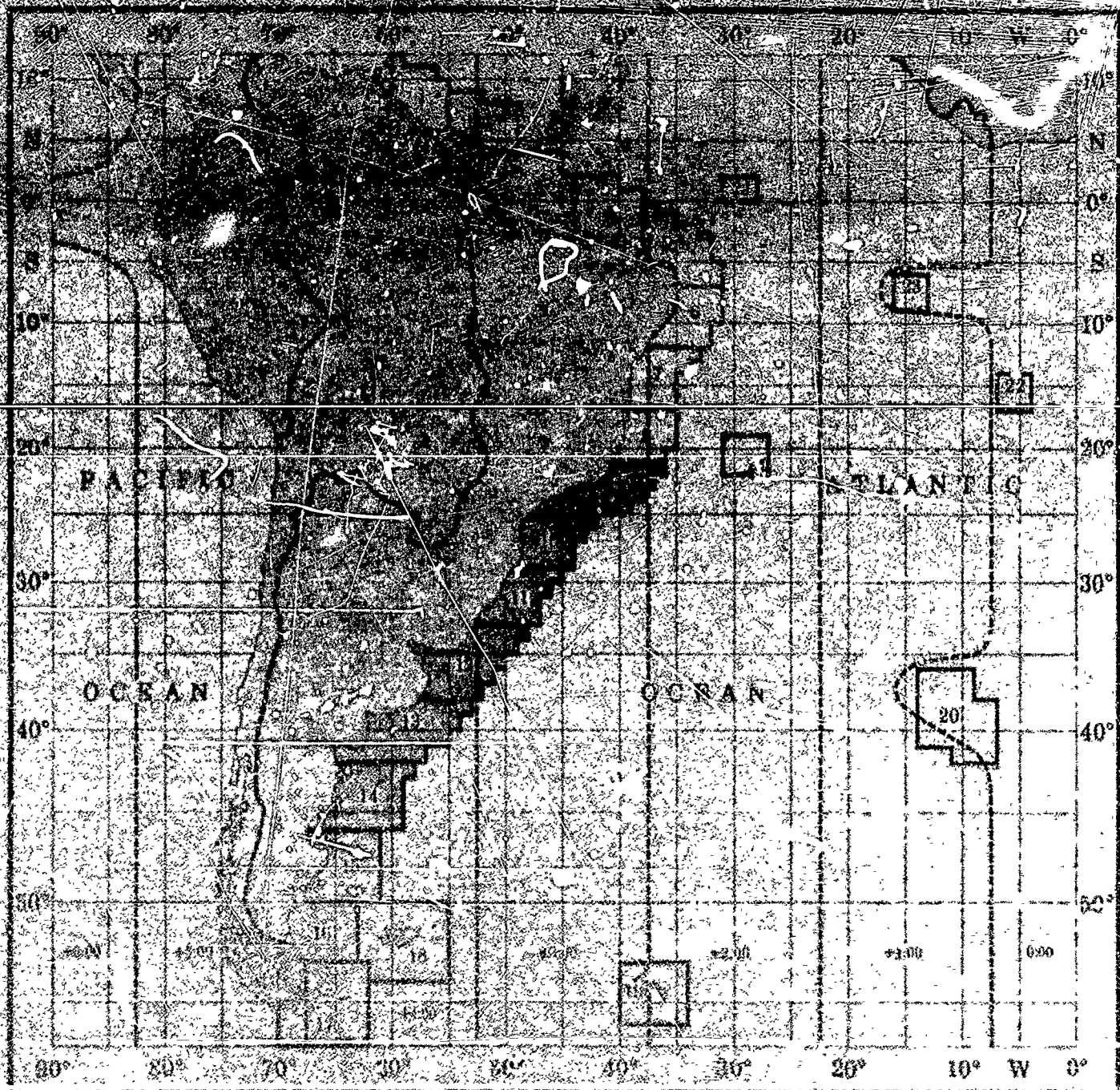
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SOUTH AMERICA AND SELECTED ISLAND SSNO AREAS (IND STANDARD TIME ZONES EAST COAST)

Shaded areas are included in this volume

A list of the SSNO names their central locations appears on the inside back cover

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is managed and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present). and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles)

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-11 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note:

In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

AREA	CONTENTS	PAGES
9	RIO DE JANEIRO	1-79
10	FLORIANOPOLIS	80-158
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DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.



Fig 1 The 8 point direction system superimposed on the 16 point system

Fig 2 The 16 point direction system superimposed on the 8 point system

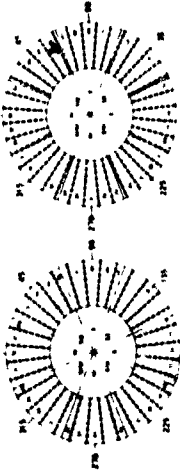


Fig 3 The 22 point direction system superimposed on the 8 point system

NOTE: < means less than;
> means greater than;
≤ means less than or equal to;
≥ means greater than or equal to.

PRESENT WEATHER (1960 WMO CODE 4677)			
VISIBILITY (VV) INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION	CODE
90-93	58-59 60-65 91-94 (68-69, 95, 97 IF TEMP > 40° F)	RAIN	10-12 40-49
94	1/2 ≤ VV < 1	RAIN SHOWERS (80-82, 83-84 IF TEMP > 40° F)	28
95	1 ≤ VV < 2	DRIZZLE	04-05
96	2 ≤ VV < 5	FREEZING PRECIPITATION	06-09 30-39
97	5 ≤ VV < 10	SNOW	00-03 14-16 18
98	10 ≤ VV < 25	OTHER FROZEN PRECIPITATION	NO SIGNIFICANT WEATHER AT OB TIME
99	VV ≥ 25	HAIR	NO PRECIPITATION AT OB TIME
		THUNDER LIGHTNING THUNDERSTORM	50-99 20-27

NOTE The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle) 68-69 (rain and snow), 93-94 (rain and hail) 96 and 99 (hail and thunder lightning/thunderstorm); 95 and 97 (snow and thunder/lightning thunderstorm), or (rain and thunder/lightning thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25	
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75	49-60
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75	
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75	61-70
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25	
			24	>11.75 to 12.25}		41	>20.25 to 20.75	
			25	>12.25 to 12.75}		42	>20.75 to 21.25	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25	
			29	>14.25 to 14.75}		45	>22.25 to 22.75	
						46	>22.75 to 23.25	
						47	>23.25 to 23.75	
						48	>23.75 to 24.25	
						49	>24.25 to 24.75	
						50	>24.75 to 25.25	
						51	>25.25 to 25.75	
						52	>25.75 to 26.25	
						53-99	>26.25 to 49.75}	>87
						Indeterminate-INDEX		

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	POS WD PCPN	POS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	4.0	1.7	1.2	.0	.0	.0	.0	6.7	3.1	3.6	.2	.2	.7	.0 85.7
NE	2.0	.6	.9	.0	.0	.0	.0	3.2	1.3	3.4	.4	.1	.6	.0 91.0
E	2.4	1.5	.6	.0	.0	.0	.0	4.5	2.0	1.8	.4	.0	1.9	.0 88.8
SE	7.0	2.9	3.2	.0	.0	.0	.0	13.2	2.3	2.6	.7	.0	.9	.0 80.7
S	6.1	4.0	1.8	.0	.0	.0	.0	11.9	3.8	1.9	.8	.0	.7	.0 79.4
SW	5.1	2.3	1.7	.0	.0	.0	.0	9.1	1.0	3.8	2.8	.0	2.4	.0 81.3
W	3.9	1.8	1.5	.0	.0	.0	.0	7.2	3.9	6.1	4.4	.0	3.8	.0 74.8
NW	7.1	1.2	1.5	.0	.0	.0	.0	9.8	3.1	3.8	1.8	.0	2.4	.0 77.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	.0	1.1	.0	.0	.0	.0	2.2	3.4	1.1	3.2	.0	1.1	.0 87.1
TOT PCT	3.6	1.6	1.3	.0	.0	.0	.0	6.4	2.6	3.0	.8	.1	1.1	.0 86.1
TOT OBS:	2796													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	POS WD PCPN	POS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
0000	3.1	1.8	2.2	.0	.0	.0	.0	8.9	7.4	8.0	.7	.0	.6	.0 79.2
0600	3.7	2.3	1.2	.0	.0	.0	.0	7.4	3.4	4.1	.9	.0	.7	.0 83.6
1200	2.6	1.1	1.2	.0	.0	.0	.0	4.8	1.9	.1	1.1	.2	1.9	.0 89.9
1800	3.3	1.1	1.3	.0	.0	.0	.0	3.6	2.6	.7	.3	.0	1.0	.0 90.0
TOT PCT	3.6	1.6	1.3	.0	.0	.0	.0	6.6	2.7	3.1	.8	.1	1.1	.0 85.8
TOT OBS:	2961													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					40+	TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.0	3.6	7.4	1.4	.0	.0		13.3	12.3	11.3	15.3	15.1	15.6	18.9	18.6	14.6	11.5
NE	1.3	13.0	10.6	2.6	.1	.0		33.6	12.3	31.9	33.7	33.6	34.9	33.5	30.8	34.2	41.3
E	1.9	6.7	5.2	.3	.0	.0		16.0	9.2	20.0	17.7	15.4	16.3	12.9	13.2	16.3	19.7
SE	1.6	6.3	2.7	.3	.0	.0		10.8	8.7	14.6	10.7	8.9	8.3	6.4	9.8	12.9	6.7
S	1.1	3.8	2.0	.2	.0	.0		7.1	8.9	8.3	5.7	3.3	9.9	6.2	7.5	9.1	5.8
SW	.8	3.3	1.2	.2	.0	.0		3.3	8.6	4.3	3.1	4.8	4.2	6.3	7.1	3.5	4.3
W	.6	2.3	.0	.1	.0	.0		3.9	8.0	2.6	4.0	4.3	3.1	3.2	4.3	2.3	1.6
NW	.3	2.0	.8	.1	.0	.0		3.4	8.9	2.4	3.1	4.3	4.9	3.6	4.3	2.4	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0	4.4	3.8	3.7	2.8	4.3	4.2	2.7	3.9
TOT OBS	1237	4284	3470	491	12	2	9446		10.2	1663	1213	1789	144	1677	1400	1444	132
TOT PCT	13.1	44.9	36.7	5.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.1	7.7	4.3	.2	.0		15.3	12.5	12.2	15.2	18.8	14.3
NE	6.0	19.1	8.2	.4	.0		33.8	12.3	33.3	33.7	32.3	34.9
E	3.6	8.9	1.6	.0	.0		16.0	9.2	19.1	13.7	13.0	16.6
SE	4.3	5.3	.9	.1	.0		10.8	8.7	13.0	8.8	9.2	12.3
S	2.9	2.3	.8	.0	.0		7.1	8.9	7.2	3.9	6.8	8.8
SW	2.4	2.3	.3	.1	.0		5.3	8.6	4.7	4.8	6.7	3.4
W	1.9	1.6	.3	.0	.0		3.9	8.0	3.3	4.2	4.9	2.2
NW	1.6	1.4	.4	.0	.0		3.4	8.9	2.7	4.3	4.0	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.3						4.3	.0	4.2	3.3	4.4	2.8
TOT OBS	3029	4733	1614	84	4	9460		10.2	2880	1913	3077	1396
TOT PCT	32.0	50.0	17.1	.9	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1956-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	24-47				
0000	4.2	8.4	43.9	36.2	5.1	.1	.1	10.2	100.0	2880
0400	3.3	8.8	46.6	34.4	4.8	.1	.0	9.9	100.0	1913
1200	4.4	10.6	42.8	36.8	5.6	.2	.0	10.1	100.0	3077
1800	2.8	6.3	43.2	40.5	5.1	.1	.0	10.8	100.0	1396
TOT	404	833	4234	3470	491	12	2	10.2		9486
PCT	4.3	8.8	44.9	36.7	5.2	.1	"		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8 & OBS'D	CLOUD COVER
N	4.2	2.7	5.1	3.7	4.7
NE	17.2	6.8	9.4	4.3	3.4
E	3.7	3.3	4.6	2.6	3.9
SE	2.3	1.8	3.4	3.4	3.2
S	1.1	1.4	2.3	1.7	3.2
SW	.8	.7	1.8	.9	3.1
W	.3	.6	1.1	.9	3.3
NW	.4	.3	.7	.5	3.1
VAR	.0	.0	.0	.0	.0
CALM	.6	.4	1.1	.8	4.9
TOT OBS	623	347	361	351	4.2
TOT PCT	33.1	18.4	20.8	18.7	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/5)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
AND OCCURRENCE BY WIND DIRECTION											TOTAL
000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	OBS
149	299	599	999	1799	3499	4999	6499	7999			
*	*	.1	1.0	1.9	.7	.7	.1	.0	*	11.0	
*	*	.4	1.8	1.6	1.4	1.2	.3	.1	*	30.7	
.0	.2	.2	1.1	1.7	1.1	.4	.1	.1	.1	11.3	
.1	*	.3	1.0	1.9	.7	.5	.0	.1	*	6.6	
*	*	.0	.5	1.0	.8	.3	.2	.1	*	3.7	
*	*	.1	.4	.4	.7	.2	.0	*	.1	2.2	
.0	.0	.1	.4	.4	.2	.1	.1	.0	.1	1.8	
.0	.0	.1	.2	.2	*	.1	.1	.0	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.3	.3	.2	.0	.1	.0	.1	1.6	
4	6	24	123	178	108	71	10	7	13	1328	1882
.2	.3	1.3	6.3	9.3	5.7	3.8	1.0	.4	.8	70.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>4500	.9	1.3	1.4	1.4	1.4	1.4	1.4	1.4
>3000	1.7	2.2	2.4	2.4	2.4	2.4	2.4	2.4
>2000	3.2	3.3	4.0	6.1	6.2	6.2	6.2	6.2
>1000	6.2	10.6	11.7	11.9	11.9	12.0	12.0	12.0
>500	12.3	19.1	20.7	21.1	21.1	21.2	21.3	21.3
>400	14.9	23.3	27.3	27.7	27.8	27.9	28.0	28.0
>300	17.7	26.3	28.3	28.9	29.0	29.1	29.2	29.3
>150	17.8	26.6	28.6	29.0	29.1	29.3	29.4	29.4
>0	17.8	26.7	28.8	29.3	29.3	29.3	29.6	29.6
TOTAL	342	512	553	562	563	566	568	569

TOTAL NUMBER OF OBS: 1921

PCT FREQ NM <5/8: 70.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
17.6	17.6	14.7	11.2	8.1	6.1	6.2	6.5	11.9	.1	20.9

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1896-1973AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.9	
	TOT S	.1	.1	.1	.0	.0	.0	.1	.0	.0	.1	.9	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.1	.2	.0	.0	.1	.0	.0	.0	.6	
	TOT S	.1	.1	.1	.2	.0	.0	.1	.0	.0	.0	.8	
2<3	PCP	.0	.1	.1	.4	.2	.0	.0	.0	.0	.0	1.0	
	NO PCP	.5	.7	.7	.8	.5	.4	.3	.5	.0	.2	4.9	
	TOT S	.5	.8	.8	1.1	.7	.5	.3	.5	.0	.3	5.9	
3<10	PCP	.5	.7	.3	.6	.4	.3	.2	.2	.0	.0	3.3	
	NO PCP	2.9	6.3	3.4	2.8	1.5	1.3	1.2	.8	.0	.6	20.5	
	TOT S	3.4	7.0	3.7	3.2	1.9	1.5	1.4	1.0	.0	.6	23.8	
10+	PCP	.4	.2	.2	.4	.2	.1	.1	.0	.0	.0	1.6	
	NO PCP	10.5	26.0	10.9	6.9	4.4	2.9	2.1	1.4	.0	2.4	67.4	
	TOT S	10.9	26.3	11.1	7.3	4.6	3.0	2.1	1.5	.0	2.4	69.1	
TOT OBS													2792
TOT PCT		19.0	34.3	19.8	11.9	7.4	5.1	4.0	3.0	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.3	
	11-21	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.2	.2	.1	.1	.1	.0	.0	.1	1.0	
2<3	0-3	.0	.1	.0	.2	.1	.1	.0	.0	.0	.2	.7	
	4-10	.2	.3	.3	.4	.2	.2	.2	.2	.0	.0	1.9	
	11-21	.2	.2	.3	.3	.2	.1	.1	.1	.0	.0	1.6	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.5	.6	.6	.9	.6	.4	.3	.3	.0	.2	4.4	
3<10	0-3	.2	.3	.4	.4	.1	.2	.1	.1	.0	.3	2.2	
	4-10	.9	1.7	1.6	1.3	.8	.7	.6	.5	.0	.0	9.1	
	11-21	1.2	2.6	.9	.8	.7	.2	.3	.1	.0	.0	6.8	
	22+	.3	.8	.0	.0	.0	.1	.0	.0	.0	.0	1.3	
	TOT S	2.6	5.3	2.8	2.6	1.7	1.2	1.0	.8	.0	.3	19.4	
10+	0-3	.7	1.3	1.6	1.0	.6	.7	.4	.3	.0	3.1	9.6	
	4-10	4.2	11.1	7.3	4.9	3.0	2.1	1.6	1.2	.0	.0	39.4	
	11-21	3.3	14.0	4.4	1.6	1.2	.6	.4	.3	.0	.0	28.0	
	22+	.7	1.4	.2	.1	.1	.0	.0	.0	.0	.0	2.6	
	TOT S	11.1	27.8	13.5	7.6	4.9	3.4	2.5	1.8	.0	3.1	79.6	
TOT OBS													3238
TOT PCT		14.3	34.0	17.2	11.2	7.3	5.1	3.9	3.0	.0	4.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900 1099	1000 1199	1100 1299	1200 1399	1300 1499	1400 1599	1500 1699	1600 1799	1700 1899	1800 1999	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.2	.2	.4	7.0	8.5	4.0	2.8	1.3	.6	.4	25.0	74.4	472									
06009	.4	.0	1.6	5.4	10.1	5.6	4.3	.6	.0	1.0	29.9	71.1	316									
12019	.0	.4	1.7	6.7	9.6	6.5	4.4	.8	.2	.8	31.1	68.9	321									
18021	.2	.6	1.0	6.3	8.0	6.5	3.1	1.4	.6	1.6	29.2	70.8	310									
TOT	4	6	24	128	183	115	74	21	7	19	381	1438	2019									
PCT	.2	.3	1.2	6.3	9.1	5.7	3.7	1.0	.3	.9	28.8	71.2	100.0									

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.3	.3	1.4	5.2	19.5	73.3	1335
06009	.5	.2	1.1	3.7	17.9	74.6	1177
12019	.2	.2	.8	3.5	18.2	77.1	1637
18021	.4	.2	.8	3.4	19.1	76.1	974
TOT	18	12	55	238	998	4022	5343
PCT	.3	.2	1.0	4.5	18.7	75.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.2	1.4	11.3	17.6	70.9	444
06009	.6	2.8	13.3	18.2	68.3	493
12019	.0	2.0	12.3	21.2	66.3	496
18021	.2	1.4	11.3	19.1	69.5	486
TOT	5	37	235	366	1320	1921
PCT	.3	1.9	12.2	19.1	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
93/99	.0	.0	.1	.0	.0	.1	.1	.1	3	.2
90/94	.0	.0	.0	.2	.1	.0	.1	.1	9	.3
85/83	.0	.0	.1	1.1	1.4	.4	.4	.4	65	3.3
80/84	.0	.0	.0	.0	2.1	9.3	8.3	2.7	434	22.8
75/79	.0	.0	.0	.0	1.1	8.2	29.6	18.3	1138	57.1
70/74	.0	.0	.0	.0	.6	1.1	4.8	9.0	309	15.5
65/69	.0	.0	.0	.0	.0	.1	.2	.3	14	.7
60/64	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	1	4	97	402	869	620	1993	100.0
PCT	.0	.0	.1	.2	4.9	20.3	43.6	31.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.6	.6	.0	.1	.0	.0	.0
.0	.2	.0	.1	.0	.1	.0	.0	.0	.0
.9	1.1	.4	.2	.2	.2	.2	.1	.0	.4
5.1	2.3	2.3	1.7	1.0	1.1	.6	.0	.0	.9
8.8	21.8	8.3	6.4	3.9	2.3	2.0	1.3	.0	2.0
1.7	4.6	2.8	2.1	1.5	1.1	.9	.3	.0	.3
.1	.1	.2	.1	.2	.0	.1	.0	.0	.0
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
16.1	37.0	14.6	10.6	6.9	4.7	3.8	2.6	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	84	81	77	72	69	68	76.7	2868
06009	94	82	80	76	71	69	63	75.8	1916
12019	95	86	84	78	73	69	64	78.3	3070
18021	93	88	83	79	73	70	68	79.2	1344
TOT	95	86	83	77	72	69	64	77.4	9348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	3.5	14.3	43.8	37.0	86	587		
06009	.0	.0	1.3	11.8	39.7	47.1	88	473		
12019	.0	.3	7.1	24.3	43.9	24.4	83	633		
18021	.0	.3	6.3	30.1	43.3	17.8	81	409		
TOT	0	5	99	414	896	637	83	2074		

JANUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1856-1973

TABLE 17

AREA 0009 RIO DE JANEIRO
22.73 41.34

PCT PROB OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF POG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	61 64	63 66	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W POG	NO POG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
11/13	.0	.0	.0	.0	.3	.1	.3	.0	.0	19	.0	.0
9/10	.0	.0	.0	.2	.2	.5	.2	.1	.4	29	.0	1.2
7/8	.0	.0	.0	.2	.9	.3	.3	.0	.0	43	.0	1.9
6	.0	.0	.2	.4	.7	1.0	.2	.0	.0	39	.0	2.4
5	.0	.0	.1	.4	1.7	1.8	.5	.0	.0	104	.0	4.5
4	.0	.0	.2	1.2	2.9	2.0	.2	.0	.0	131	.0	6.3
3	.0	.0	.0	1.4	3.1	1.9	.2	.0	.0	132	.0	6.6
2	.0	.0	.3	2.8	5.4	2.3	.0	.0	.0	249	.1	10.0
1	.0	.0	.3	4.7	7.0	1.4	.1	.0	.0	314	.0	13.6
0	.0	.0	.0	6.0	8.3	1.1	.0	.0	.0	363	.2	15.7
-1	.0	.0	.4	3.4	6.3	.7	.0	.0	.0	234	.0	11.1
-2	.0	.0	.4	4.3	5.0	.3	.0	.0	.0	234	.0	10.2
-3	.0	.0	.0	2.6	2.2	.1	.0	.0	.0	132	.0	3.8
-4	.0	.0	.5	1.7	1.0	.0	.0	.0	.0	73	.0	3.2
-5	.0	.0	.4	1.3	.7	.1	.0	.0	.0	39	.0	2.0
-6	.0	.0	.0	.8	.1	.0	.0	.0	.0	30	.0	1.3
-7/-8	.0	.1	.4	.3	.1	.0	.0	.0	.0	19	.0	.8
-9/-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	1	4	116	733	1039	323	47	6	3	2294	14	2380
PCT	.0	.2	5.1	32.0	46.2	14.1	2.0	.3	.1	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT PROB OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
02	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
05	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
07	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
08	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.0	7.0	1.0	.0	.0	10.4	.0	12.5	21.3	2.8	.0	.0	37.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
02	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
05	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
06	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
07	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
08	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	6.0	6.4	.3	.0	.0	14.1	.0	7.7	5.1	.0	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1973

JANUARY

AREA 0009 RIO DE JANEIRO
22.7S 41.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.4	.0	.0	.0	.0	.6	.1	.4	.0	.0	.0	.0	.6	
1-2	.3	2.7	.6	.0	.0	.0	3.6	.0	1.3	.0	.0	.0	.0	1.4	
3-4	.0	1.4	1.3	.0	.0	.0	2.7	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.1	.6	.0	.0	.0	.8	.0	.3	.3	.0	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.6	2.6	.2	.0	.0	7.9	.1	2.9	.3	.1	.0	.0	3.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	.4	.1	.0	.0	.0	.8	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.2	.4	.0	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	.3	1.0	.9	.0	.0	.0	2.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	3.1	.2	.0	.0	.0	12.0	
1-2	2.8	24.1	9.2	.0	.0	.0	36.0	
3-4	.4	10.3	20.1	1.2	.0	.0	31.9	
5-6	.1	2.4	10.3	1.1	.0	.0	14.1	
7	.0	.4	2.3	1.9	.0	.0	4.8	
8-9	.0	.0	.1	.6	.0	.0	.7	
10-11	.0	.1	.0	.2	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.9	42.9	42.7	5.1	.0	.0	100.0	827

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	3.5	14.3	18.8	6.3	1.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	3
1-2	.1	2.2	9.7	8.8	3.2	.9	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	418	4
3-4	.1	1.0	2.3	2.4	1.9	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	5
5-6	.0	.5	.4	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	5
7-9	.0	.0	.5	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
10-11	.0	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	274	3
TOTAL	103	374	801	349	140	53	13	6	1	0	0	0	0	0	0	0	0	0	0	1642	4
PCT	6.3	22.8	36.0	21.3	8.5	3.3	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.7	1.8	.9	.0	.0	.0	.0	4.4	1.5	4.0	.3	.0	2.3	.0	87.1
NE	2.0	1.1	.5	.0	.0	.0	.0	3.6	.7	3.0	.7	.0	1.0	.0	91.3
E	2.7	.6	1.2	.0	.0	.0	.0	4.3	1.9	1.7	1.2	.2	.7	.0	70.1
SE	2.9	1.9	.7	.0	.0	.0	.0	4.6	4.5	2.3	.6	.0	1.2	.0	86.8
S	9.7	2.3	.9	.0	.0	.0	.0	13.1	3.3	2.8	.6	.0	2.2	.0	75.6
SW	3.6	4.4	3.5	.0	.0	.0	.0	13.0	3.3	4.9	2.6	.0	1.0	.0	75.2
W	6.1	1.0	2.8	.0	.0	.0	.0	8.9	4.8	2.8	.0	.0	.0	.0	83.3
NW	1.8	1.8	5.2	.0	.0	.0	.0	8.9	1.8	3.8	.3	.0	.9	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALC	6.7	.0	4.3	.0	.0	.0	.0	10.1	.0	11.2	3.4	.0	3.4	.0	71.9
TOT PCT TOT OBS:	3.1 2809	1.4	1.2	.0	.0	.0	.0	3.3	2.0	3.3	.9	*	1.3	.0	87.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.4	1.6	1.8	.0	.0	.0	.0	7.3	2.7	8.2	.6	.0	.3	.0	81.2
0400	3.3	1.7	1.7	.0	.0	.0	.0	6.8	1.6	4.9	1.9	.0	.6	.0	84.6
1200	1.8	1.3	.9	.0	.0	.0	.0	4.0	2.0	.4	.7	.1	2.3	.0	90.3
1800	2.6	.9	.6	.0	.0	.0	.0	4.2	1.4	.2	.6	.0	1.2	.0	92.4
TOT PCT TOT OBS:	3.1 2887	1.8	1.2	.0	.0	.0	.0	3.6	1.9	3.3	.9	.0	1.2	.0	87.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.1	3.1	6.4	1.0	.1	.0	14.4	12.0	9.6	11.3	14.8	15.3	19.4	18.1	13.5	8.7		
NE	1.7	15.1	15.6	2.0	.1	.0	34.6	11.7	33.3	22.3	30.6	30.6	34.6	32.2	33.4	32.7		
E	1.8	10.6	4.8	.3	.0	.0	17.3	9.0	21.0	21.4	18.4	28.2	13.9	14.7	16.3	23.6		
SE	1.2	5.9	2.0	.2	.0	.0	9.3	8.4	12.8	9.4	7.3	8.7	6.1	9.0	11.3	12.3		
S	1.1	3.7	1.3	.1	.0	.0	6.3	8.0	7.7	7.1	3.2	3.2	4.6	3.1	3.3	6.3		
SW	.9	3.9	1.3	.2	.0	.0	3.1	8.3	3.8	4.9	3.3	3.8	6.3	3.9	6.6	6.3		
W	.9	2.2	.7	.1	.0	.0	3.9	7.4	2.3	4.0	4.2	2.8	4.3	3.3	3.4	4.0		
NW	.7	1.9	.8	.2	.0	.0	3.3	3.6	1.8	3.9	3.3	6.7	4.3	3.2	2.3	4.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.7						4.7	.0	3.7	3.3	6.3	.8	6.1	4.4	2.3	.8		
TOT OBS	1338	4620	3167	393	20	2	9340	9.7	1789	1239	1786	126	1623	1323	1314	126		
TOT PCT	14.0	48.4	33.2	4.1	.2	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.1	7.3	3.3	.3	.0	14.4	12.0	10.4	14.8	18.8	13.1		
NE	7.0	19.9	7.2	.4	.0	34.6	11.7	34.2	36.2	33.3	33.2		
E	6.1	10.0	1.4	.0	.0	17.3	9.0	21.2	17.1	14.2	17.0		
SE	4.0	4.6	.7	.0	.0	9.3	8.4	11.4	7.4	7.4	11.4		
S	3.1	2.7	.4	.0	.0	6.3	8.0	7.3	3.2	4.8	8.2		
SW	2.3	2.9	.4	.0	.0	3.9	8.3	3.4	3.4	6.1	6.6		
W	2.1	1.6	.2	.0	.0	3.9	7.4	3.0	4.1	3.0	3.4		
NW	1.8	1.4	.4	.1	.0	3.3	3.6	2.7	3.7	4.8	2.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.7					4.7	.0	4.4	6.1	3.3	2.4		
TOT OBS	3240	4833	1363	73	9	9540	9.7	3046	1906	2948	1840		
TOT PCT	34.2	50.7	14.3	.8	.1	100.0		100.0	100.0	100.0	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1897-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.4	9.0	30.2	32.2	3.7	.4	*	9.7	100.0	3046
0600Z	6.1	9.0	48.8	32.6	3.5	.1	.0	9.4	100.0	1906
1200Z	5.9	11.3	43.1	33.2	4.9	.1	.0	9.6	100.0	2948
1800Z	2.4	7.0	30.4	35.6	4.3	.3	.1	10.3	100.0	1640
TOT	448	893	4620	3167	363	20	2	9.7		8340
PCT	4.7	9.4	48.4	33.2	4.1	.2	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DESCO	TOTAL OBS	MEAN CLOUD COVER
M	4.7	2.9	3.3	2.5		4.4
NR	19.5	7.3	6.0	5.9		3.2
E	6.2	4.2	4.6	5.1		4.0
SE	2.6	1.7	2.3	1.8		4.4
S	1.2	1.1	1.8	1.3		3.1
SW	1.0	1.1	1.7	1.4		3.3
W	.3	.6	.8	1.2		3.6
NW	.5	.3	.7	.7		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.3	.8	.8	.5		3.5
TOT OBS	717	876	904	321	1918	4.0
TOT PCT	37.4	19.6	26.3	16.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DESCO	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, NM >4/8)										NM <5/8 ANY HGT	TOTAL OBS
							000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
M	4.7	2.9	3.3	2.5		4.4	.0	.0	.2	.8	1.3	1.1	.4	.1	.1	.4	10.9	
NR	19.5	7.3	8.0	3.9		3.2	.2	.1	.1	1.2	1.7	1.5	.8	.3	.1	.3	22.4	
E	6.2	4.2	4.6	3.1		4.0	.1	.1	.1	.9	1.4	1.2	.3	.2	.0	.2	13.4	
SE	2.6	1.7	2.3	1.8		4.4	.1	0	.1	.4	1.0	.6	.2	.1	.0	.1	6.3	
S	1.2	1.1	1.0	1.3		3.1	.0	0	.1	.3	1.0	.6	0	0	.0	.1	3.3	
SW	1.0	1.1	1.7	1.4		3.3	.1	.1	.1	.6	.6	.4	.4	.1	.1	0	2.8	
W	.5	.6	.8	1.2		3.6	.1	.0	.1	.2	.7	.4	.7	.1	.0	.0	1.3	
NW	.5	.3	.7	.7		3.2	.1	.0	.0	.1	.3	.3	.1	.1	.0	.0	1.3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.8	.8	.3		2.5	.0	.0	.1	.1	.3	.2	.1	.0	.0	.0	2.4	
TOT OBS	717	374	364	321	1918	4.0	11	3	13	90	138	120	32	16	5	21	1423	
TOT PCT	37.4	19.4	26.3	16.7	100.0		.6	.3	.8	4.7	8.2	6.3	2.7	.8	.3	1.1	74.3	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>50YD	>0
>4800	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>3600	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>2400	3.2	4.8	4.8	4.9	4.9	4.9	4.9	4.9
>1800	8.1	10.8	11.1	11.1	11.1	11.1	11.1	11.1
>1200	13.9	18.7	19.4	19.4	19.4	19.4	19.4	19.4
>900	16.4	22.6	23.9	23.9	23.9	24.0	24.1	24.1
>700	16.7	23.5	24.3	24.6	24.7	24.7	24.9	24.9
>500	16.8	23.7	24.7	24.9	24.9	25.0	25.3	25.3
>0	19.0	24.2	25.3	25.3	25.3	25.6	25.7	25.7
TOTAL	369	471	492	493	496	497	500	500

TOTAL NUMBER OF OBS: 1944

PCT FREQ NM <5/8: 74.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DESCO	TOTAL OBS
17.3	18.9	18.2	12.4	6.8	5.6	5.6	4.9	9.9	.4	2168

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1937-1973

FEBRUARY

AREA 0009 RIO DE JANEIRO
22.7° 41.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2
	TOT S	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT S	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1	.4
2<5	PCP	.1	.1	.1	.1	.2	.1	.1	.0	.0	.0	.0	.7
	NO PCP	.3	.7	.3	.3	.1	.1	.1	.1	.0	.1	.1	2.2
	TOT S	.3	.7	.4	.4	.3	.2	.1	.1	.0	.1	.1	2.9
5<10	PCP	.4	.7	.3	.2	.3	.3	.1	.2	.0	.2	.2	2.7
	NO PCP	3.0	6.9	3.3	1.8	.8	1.1	.6	.9	.0	.6	.6	16.8
	TOT S	3.4	7.6	3.6	1.9	1.1	1.4	.7	1.1	.0	.8	.8	21.5
10+	PCP	.2	.4	.3	.1	.2	.3	.1	.1	.0	.1	.1	1.8
	NO PCP	11.1	27.9	13.7	6.7	3.9	3.4	2.3	1.6	.0	2.1	.1	72.9
	TOT S	11.3	28.3	14.1	6.8	4.1	3.7	2.4	1.7	.0	2.1	.1	74.7
TOT OBS													
TOT PCT													
		14.9	37.0	18.4	9.1	5.6	5.4	3.5	2.9	.0	3.2	100.0	2803

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.4	
2<5	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.3	
	4-10	.1	.3	.2	.2	.2	.1	.0	.1	.0	.0	1.2	
	11-21	.1	.2	.2	.1	.1	.1	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.3	.6	.3	.4	.3	.3	.1	.2	.0	.1	2.7	
5<10	0-3	.3	.4	.2	.1	.1	.1	.1	.2	.0	.0	2.3	
	4-10	1.0	1.8	1.4	1.0	.8	.8	.4	.4	.0	.0	7.3	
	11-21	1.0	2.6	1.1	.4	.2	.2	.1	.1	.0	.0	5.6	
	22+	.2	.4	.1	.1	.1	.1	.0	.0	.0	.0	.9	
	TOT S	2.5	5.2	2.8	1.6	1.1	1.1	.6	.6	.0	.0	16.8	
10+	0-3	.9	1.3	1.6	.9	.9	.6	.6	.3	.0	3.1	10.2	
	4-10	4.3	12.3	9.3	4.6	3.1	2.3	1.8	1.2	.0	.0	39.7	
	11-21	3.7	14.2	3.6	1.3	.9	1.0	.6	.3	.0	.0	27.7	
	22+	.0	1.1	.2	.1	.1	.1	.0	.1	.0	.0	2.3	
	TOT S	11.0	29.0	14.8	6.9	5.0	4.2	3.0	2.1	.0	3.1	79.9	
TOT OBS													
TOT PCT													
		14.6	39.0	18.3	9.0	6.3	5.7	3.7	2.1	.0	4.1	100.0	3221

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1897-1973AREA 0009 RIO DE JANEIRO
22.7S 41.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.7	.2	.4	4.3	7.2	6.3	2.7	.9	.0	.5	23.4	76.6	552						
0600	1.2	.0	1.0	3.9	.7	4.9	3.5	.2	.0	1.4	27.2	72.8	489						
1200	.2	.0	.0	3.6	9.7	6.6	2.3	.9	.4	1.3	26.6	73.4	527						
1800	.0	.0	1.3	3.3	3.4	3.8	2.0	.9	.0	1.1	20.6	79.4	539						
TOT	11	5	17	91	164	123	55	16	5	24	513	1594	2107						
PCT	.3	.2	.8	4.3	7.8	5.9	2.6	.8	.2	1.1	24.3	75.7	100.0						

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-4	4-10	10+	TOTAL OBS
0000	.2	.2	.7	3.4	17.3	78.1	1032
0600	.3	.3	.8	3.0	17.8	78.0	1116
1200	.3	.1	.3	2.1	16.9	80.1	1548
1800	.3	.1	.0	1.9	14.1	83.6	1008
TOT	14	10	24	141	886	4229	5504
PCT	.3	.2	.9	2.7	16.7	79.7	100.0

TABLE 12

CUMULATIVE PCT FRQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<100 41	<1000 45	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
0000	.8	1.6	7.2	18.0	74.8	500
0600	1.3	2.2	9.8	18.9	71.3	480
1200	.2	1.9	7.2	22.3	70.3	475
1800	.0	2.0	6.9	19.7	77.4	509
TOT	11	37	190	364	1430	1944
PCT	.6	1.9	7.7	18.7	75.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRQ
96/94	.0	.0	.0	.1	.2	.0	.0	.0	8	.4
85/89	.0	.0	.0	.2	.8	1.8	.3	.3	76	3.6
80/84	.0	.0	.0	.0	1.8	14.5	12.6	3.8	690	32.3
75/79	.0	.0	.0	.2	1.1	7.1	27.1	18.9	1133	54.4
70/74	.0	.0	.0	.0	.1	.4	2.8	.7	190	8.9
65/69	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
TOTAL	0	0	1	12	80	509	911	612	2122	100.0
PCT	.0	.0	.0	.6	3.8	24.0	42.9	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
96/94	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
85/89	.0	1.1	.8	.4	.1	.0	.1	.2	.0	.1
80/84	6.3	13.9	5.2	2.3	1.2	1.0	.7	.9	.0	.8
75/79	7.0	19.8	10.0	5.5	3.4	3.3	1.7	1.2	.0	2.0
70/74	1.0	3.6	1.7	.3	.6	.6	.6	.2	.0	.3
65/69	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	19.2	38.4	17.8	8.8	5.3	5.2	3.2	2.3	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	89	84	82	78	73	70	46	77.6	2981
0600	90	82	81	77	72	69	65	76.8	1886
1200	95	87	85	79	74	71	63	79.1	2833
1800	95	89	86	80	73	72	64	80.3	1968
TOT	95	87	84	78	73	70	63	78.4	9270

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-89	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.3	2.7	16.1	45.9	38.0	86	828
0600	.0	.0	1.0	12.0	45.9	41.1	87	486
1200	.0	.8	5.9	26.3	41.8	27.2	84	596
1800	.0	1.3	6.0	42.4	36.3	11.8	80	474
TOT	0	13	83	517	932	637	84	2182

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

FEBRUARY

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 64	05 68	09 72	13 76	17 80	21 84	25 88	29 92	TOT	W FOG	W0 FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
11/13	.0	.0	.0	.0	.2	.2	.3	.0	19	.0	.8
9/10	.0	.0	.0	.0	.4	.3	.1	.2	25	.0	1.0
7/8	.0	.0	.0	.3	.5	.9	.7	.1	61	.1	2.4
6	.0	.0	.1	.4	.9	.7	.2	.1	59	.0	2.4
5	.0	.0	.1	.5	1.2	1.2	.6	.0	86	.0	2.5
4	.0	.1	.0	1.0	1.6	2.0	.3	.0	122	.0	5.0
3	.0	.0	.1	1.1	2.4	1.9	.4	.0	145	.1	5.9
2	.0	.0	.2	1.4	4.8	3.6	.2	.0	248	.1	10.1
1	.0	.0	.1	2.3	7.7	3.1	.0	.0	320	.1	12.2
0	.0	.0	.3	3.3	11.0	3.6	.1	.0	442	.1	18.2
-1	.0	.0	.4	2.7	8.7	1.9	.0	.0	332	.1	13.6
-2	.0	.0	.2	3.1	5.7	.7	.0	.0	233	.1	9.5
-3	.0	.0	.2	1.5	2.9	.5	.0	.0	119	.0	4.9
-4	.0	.0	.1	1.9	1.7	.1	.0	.0	91	.0	3.7
-5	.0	.0	.3	.9	.7	.0	.0	.0	46	.0	1.9
-6	.0	.0	.0	.7	.2	.0	.0	.0	23	.0	1.0
-7/-8	.0	.0	.4	.4	.2	.0	.0	.0	25	.0	1.0
-9/-10	.0	.0	.0	.2	.0	.0	.0	.0	7	.0	.3
-11/-13	.1	.0	.2	.0	.0	.0	.0	.0	8	.0	.3
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	06	927	1229	902	71	12	2	2418	21	2397
PCT	.2	.2	2.7	21.8	50.8	20.8	2.9	.1	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.7	<1	.0	1.3	.1	.0	.0	.0	2.0
1-2	.0	.0	.0	.0	.0	.0	4.4	1-2	.0	8.0	3.6	.0	.0	.0	12.1
3-4	.0	1.3	3.7	.2	.0	.0	5.2	3-4	.0	4.4	7.8	.5	.0	.0	12.8
5-6	.0	.0	2.3	.2	.1	.0	2.8	5-6	.0	.7	6.2	.5	.0	.0	7.4
7	.0	.0	1.2	.3	.0	.0	1.7	7	.0	.1	1.9	.4	.0	.0	2.4
8-9	.0	.0	.0	.2	.0	.0	.8	8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.2	10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	33-46	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	8.9	1.2	.1	.0	15.8	TOT PCT	1.1	14.6	19.7	1.9	.0	.0	37.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.8	<1	.0	.9	.0	.0	.0	.0	1.2
1-2	.0	5.7	1.6	.0	.0	.0	7.9	1-2	.1	4.4	.9	.0	.0	.0	5.4
3-4	.1	1.8	2.6	.1	.0	.0	4.6	3-4	.0	1.1	1.3	.0	.0	.0	2.4
5-6	.0	.2	1.2	.1	.0	.0	1.5	5-6	.0	.3	.3	.2	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3	7	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.1	.1	.0	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-46	.0	.0	.0	.0	.0	.0	.0	33-46	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	9.2	5.9	.3	.0	.0	16.5	TOT PCT	.4	6.7	2.5	.3	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.7S 41.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.1	.0	.0	.0	.8	.5	.5	.0	.0	.0	.0	1.0
1-2	.3	1.7	.8	.0	.0	.0	2.8	.1	1.4	.9	.0	.0	.0	2.4
3-4	.0	.7	.8	.0	.0	.0	1.5	.0	.7	.6	.0	.0	.0	1.4
5-6	.0	.1	.2	.2	.0	.0	.3	.0	.2	.4	.1	.0	.0	.8
7	.0	.2	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.2	1.9	.3	.0	.0	3.9	.6	2.8	2.2	.1	.0	.0	3.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.1	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.2	
1-2	.3	1.0	.3	.0	.0	.0	1.6	.1	.8	.0	.0	.0	.0	.9	
3-4	.0	.8	.3	.1	.0	.0	1.0	.0	.2	.9	.0	.0	.0	.2	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.1	.8	.0	.0	.0	.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.8	1.0	.1	.0	.0	3.3	.2	1.1	.1	.1	.0	.0	1.3	91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	7.6	9.5	.2	.0	.0	.0	13.4	083
1-2	2.3	26.1	8.6	.0	.0	.0	37.0	
3-4	.1	10.7	16.8	.0	.0	.0	27.6	
5-6	.0	1.4	10.6	1.3	.1	.0	13.7	
7	.0	.4	3.3	1.1	.0	.0	4.9	
8-9	.0	.0	.7	.8	.0	.0	1.5	
10-11	.0	.1	.3	.1	.0	.0	.5	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.2	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	44.3	41.1	4.3	.1	.0	100.0	832

PERIOD: (OVER-ALL) 1969-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-28	29-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	15.3	15.0	9.8	1.2	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	679
6-7	.1	2.9	9.3	10.2	3.7	1.3	.6	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
8-9	.0	.8	2.3	2.4	2.3	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	483
10-11	.0	.0	.4	.6	.7	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130
12-13	.0	.0	.9	.3	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97
15-19	.0	.0	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
20-22	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
TOTAL	3.1	23.9	42.2	34.2	1.2	.5	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	242
PCT	6.1	23.9	32.0	21.0	9.8	3.7	2.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1862-1973

MARCH

AREA 0009 RIO DE JANEIRO
22.65 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	ORZL	PRIG PCPN	SNOW	OTHER PRIN PCPN	HALE	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG WJ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA	
N	3.9	1.0	.2	.0	.0	.0	.0	5.2	4.2	3.8	1.0	.0	1.4	.3	84.7	
NE	2.0	2.1	.6	.0	.0	.0	.0	4.4	1.5	3.3	.0	.0	.7	.0	89.6	
E	2.8	2.1	.7	.0	.0	.0	.0	5.0	1.5	3.4	1.1	.0	.4	.0	88.6	
SE	6.3	1.9	1.9	.0	.0	.0	.0	10.1	2.3	2.9	.2	.0	.3	.0	85.1	
S	9.0	3.0	1.4	.0	.0	.0	.4	9.8	4.2	3.3	.3	.4	.8	.3	81.6	
SW	4.2	6.4	3.4	.0	.0	.0	.0	13.9	3.1	2.3	1.5	.0	1.1	.1	76.3	
W	9.9	3.1	4.0	.0	.0	.0	.0	19.0	7.4	3.4	1.4	.0	.0	.0	66.9	
NW	10.9	3.6	1.7	.0	.0	.0	.0	16.2	2.0	1.1	1.1	.0	2.3	.4	77.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	1.0	.0	.0	.0	.0	2.0	.0	.0	7.0	.0	6.0	.0	85.0	
TOT PCT OBS:	3.8	2.4	1.1	.0	.0	.0	.	7.3	2.5	3.1	1.0	.	1.0	.1	85.4	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	ORZL	PRIG PCPN	SNOW	OTHER PRIN PCPN	HALE	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA	
0000	5.6	2.4	2.3	.0	.0	.0	.0	10.2	1.6	8.7	.4	.0	.3	.0	79.9	
0600	4.7	3.3	1.3	.0	.0	.0	.0	8.3	4.3	3.4	1.6	.2	.6	.3	81.2	
1200	2.9	2.6	.5	.0	.0	.0	.1	6.1	2.9	.2	1.4	.1	1.7	.0	87.7	
1800	1.9	2.3	.6	.0	.0	.0	.0	4.8	1.3	.2	.6	.0	.8	.0	92.3	
TOT PCT	3.8	2.4	1.2	.0	.0	.0	.	7.4	2.5	3.2	1.0	.1	1.0	.1	85.2	
TOT OBS	2768															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT PASS	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.2	4.9	4.8	.6	.	.0		11.4	10.7	6.4	8.4	11.2	16.4	16.8	14.8	10.5	11.2		
NE	1.6	10.4	12.6	1.0	.	.0		25.8	10.8	28.2	30.0	31.8	26.8	31.5	25.4	29.3	23.4		
E	3.1	11.7	3.3	.3	.	.0		19.4	8.9	23.9	23.2	19.6	18.7	16.6	19.3	19.4	23.4		
SE	1.3	7.5	3.1	.3	.	.0		12.4	9.1	16.4	13.8	11.0	13.0	8.6	10.9	13.8	13.6		
S	1.2	4.7	2.2	.2	.	.0		8.4	8.9	10.0	7.7	7.0	9.3	6.8	7.4	11.3	10.6		
SW	.9	3.6	2.2	.2	.	.0		7.0	9.2	6.7	5.7	3.4	3.3	8.1	8.0	8.3	5.7		
W	.9	1.9	.8	.1	.0	.0		3.7	7.8	2.9	3.4	3.9	4.8	4.2	3.4	2.4	2.4		
NW	.7	1.9	.8	.	.0	.0		3.4	7.7	1.8	2.9	3.8	4.0	4.3	3.3	2.2	6.9		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.3							4.3	.0	3.8	3.0	4.2	6.7	3.1	4.4	2.4	.8		
TOT OBS	1488	3120	3214	296	13	0	10151		9.2		1831	1331	1901	119	1771	1459	1382	123	
TOT PCT	14.7	30.8	31.7	2.9	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PASS	MEAN SPD	HOUR (GMT)					
	0-3	7-16	17-27	28-40	41+						00	03	06	12	15	21
N	3.2	6.1	2.0	.1	.0			11.4	10.7	7.3	11.5	15.9	10.6			
NE	7.1	17.8	4.7	.2	.0			29.8	10.8	26.9	31.5	30.1	29.0			
E	7.3	10.4	1.6	.1	.0			19.4	8.9	23.9	19.6	13.0	19.7			
SE	3.0	6.1	1.1	.2	.			12.4	9.1	15.3	11.2	9.6	13.8			
S	3.3	3.9	.9	.1	.0			8.4	8.9	9.0	6.9	7.1	11.4			
SW	2.7	3.3	.7	.	.0			7.0	9.2	6.2	5.4	8.0	8.1			
W	1.8	1.6	.2	.	.0			3.7	7.8	3.1	3.9	4.7	2.6			
NW	1.8	1.3	.3	.0	.0			3.4	7.7	2.3	3.8	4.8	2.3			
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0			
CALM	4.3							4.3	.0	4.3	6.2	4.8	2.3			
TOT OBS	2747	3139	1183	.1	1	10151			9.2		3182	2020	3224	1705		
TOT PCT	27.0	30.7	11.7	.6	.			100.0			100.0	100.0	100.0	100.0		

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

AREA 0009 RIO DE JANEIRO
22.6T 41.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.3	9.2	32.6	31.0	2.8	.1	.0	9.2	100.0	2182
04009	6.2	8.8	31.0	31.8	2.3	.1	.0	9.1	100.0	2020
12013	4.8	12.7	47.1	31.8	3.3	.2	.0	9.1	100.0	3224
18021	2.3	8.8	32.6	33.0	3.2	.1	.0	9.6	100.0	1709
TOT	486	1032	3120	3214	296	13	0	9.2		10131
PCT	4.5	10.2	30.5	31.7	2.9	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.8	2.8	3.1	2.7		4.2
NE	15.8	7.2	7.3	2.9		3.2
E	8.8	4.3	4.7	2.8		3.3
SE	3.1	2.1	3.0	2.3		4.6
S	1.7	1.7	3.1	2.0		3.1
SW	.9	1.0	2.4	1.9		3.6
W	.4	.3	1.0	1.1		6.0
NW	.3	.3	.8	.6		3.1
VAR	.0	.0	.0	.0		.0
CALM	1.3	.6	1.3	.4		4.0
TOT OBS	731	414	327	330	2012	4.0
TOT PCT	36.3	20.6	26.7	16.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CLOUD HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	130	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
.1		.0	.1	.4	1.2	.3	.9	.1	.1	.1		9.2
.1		.0	.3	.6	1.1	1.1	.4	.1	.1	.2		29.0
.		.0	.1	.9	1.4	1.0	.9	.1	.1	.		16.4
.0		.1	.3	.6	1.1	1.0	.2	.4	.	.		6.9
.		.0	.1	.8	1.2	.7	.9	.0	.0	.		3.3
.		.0	.2	.7	1.2	.6	.1	.1	.0	.		3.3
.1		.0	.	.	.3	.3	.	.	.0	.1		1.6
.0		.0	.	.3	.2	.1	.1	.0	.0	.		1.6
.0		.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
.0		.	.	.3	.1	.1	.	.0	.0	.		2.9
8		3	22	97	162	107	41	16	7	14	1932	
.4		.1	1.1	4.8	8.1	5.3	2.0	.8	.3	.7	76.1	2012 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCUPANCE
OF CLOUD HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				TOTAL OBS
	>10	>8	>6	>4	>1	>1/2	>1/4	>0	
>9900	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>9000	1.3	1.4	1.4	1.4	1.9	1.9	1.9	1.9	1.9
>8000	2.9	2.9	4.1	4.1	4.1	4.1	4.1	4.1	4.1
>7000	6.3	6.3	9.3	9.4	9.4	9.4	9.4	9.4	9.4
>6000	12.0	16.4	17.4	17.3	17.3	17.3	17.3	17.3	17.3
>5000	13.2	20.8	22.0	22.2	22.2	22.2	22.2	22.2	22.2
>4000	13.7	21.3	23.0	23.2	23.2	23.2	23.2	23.2	23.2
>3000	13.8	21.6	23.1	23.4	23.4	23.4	23.4	23.4	23.4
>2000	13.8	21.7	23.4	23.8	23.8	23.8	23.8	23.8	23.8
TOTAL	324	447	482	489	489	489	491	491	491

TOTAL NUMBER OF OBS: 2057

PCT FREQ NM <4/8: 76.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.7	19.9	18.3	11.1	8.2	4.0	6.0	3.1	9.3	.4	2150

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

MARCH

AREA 0009 RIO DE JANEIRO
22.63 41.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT S	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT S	.2	.0	.1	.0	.1	.0	.0	.1	.0	.0	.6	
2<3	PCP	.2	.2	.1	.1	.1	.2	.0	.1	.0	.0	1.0	
	NO PCP	.7	.4	.3	.4	.2	.2	.0	.2	.0	.1	2.6	
	TOT S	.9	.6	.4	.5	.3	.4	.0	.2	.0	.1	3.6	
3<10	PCP	.2	.8	.6	.6	.3	.3	.4	.4	.0	.0	4.0	
	NO PCP	1.4	3.9	2.7	1.8	1.4	1.6	1.0	.9	.0	1.1	13.8	
	TOT S	1.7	4.7	3.3	2.4	1.7	2.1	1.4	1.3	.0	1.1	17.8	
10+	PCP	.1	.4	.3	.2	.3	.2	.1	.0	.0	.0	1.8	
	NO PCP	8.6	28.2	13.3	7.3	6.4	4.1	1.6	1.7	.0	2.4	73.8	
	TOT S	8.8	28.6	13.6	7.5	6.8	4.3	1.8	1.7	.0	2.4	75.7	
TOT OBS													2707
TOT PCT		11.6	32.0	19.6	10.8	8.9	6.9	3.3	3.3	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.6	
2<3	0-3	.2	.1	.0	.0	.1	.0	.0	.1	.0	.1	.5	
	4-10	.2	.2	.2	.2	.1	.2	.1	.1	.0	.1	1.3	
	11-21	.2	.2	.1	.1	.1	.2	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.8	.4	.4	.4	.3	.4	.1	.1	.0	.1	2.8	
3<10	0-3	.2	.3	.2	.2	.2	.2	.2	.2	.0	.8	2.4	
	4-10	.5	1.3	1.4	1.0	.9	.7	.8	.4	.0	.0	6.4	
	11-21	.7	1.6	.7	.3	.3	.3	.3	.2	.0	.0	4.4	
	22+	.1	.2	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	TOT S	1.4	3.3	2.3	2.0	1.4	1.4	1.0	.8	.0	.3	14.4	
10+	0-3	.8	1.4	1.6	1.0	.8	.7	.4	.4	.0	3.2	10.2	
	4-10	4.0	13.9	10.8	5.9	3.6	2.3	1.2	1.2	.0	.0	42.8	
	11-21	3.0	12.6	5.0	2.3	1.7	1.4	.4	.7	.0	.0	27.5	
	22+	.3	.7	.2	.1	.1	.1	.0	.0	.0	.0	1.8	
	TOT S	8.8	28.6	17.3	9.2	6.2	4.6	2.0	1.8	.0	3.7	81.7	
TOT OBS													2419
TOT PCT		10.9	32.4	20.2	11.8	8.0	6.4	3.2	2.8	.0	4.2	100.0	

MARCH

PERIOD: (PRIMARY) 1915-1973
(OVER-ALL) 1862-1973AREA 0009 RIO DE JANEIRO
22.65 41.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND
OCCURRENCE OF MH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	MH <5/8 ANY MGT	TOTAL OBS
00003	.7	.2	.3	4.7	8.2	9.1	2.9	.7	.4	.7	24.1	75.9	331
06009	.8	.4	1.0	6.9	7.3	9.3	3.0	.4	.6	.8	26.3	73.5	309
12015	.2	.0	1.7	4.1	9.7	9.6	1.1	.6	.2	1.3	24.0	76.0	337
18021	.0	.0	1.0	2.9	7.1	9.0	1.7	1.3	.2	.6	19.7	80.3	323
TOT	9	3	22	98	169	111	46	16	7	18	499	1617	2116
PCT	.4	.1	1.0	4.6	8.0	5.2	2.2	.8	.3	.9	25.6	76.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.2	.1	.8	3.2	13.8	81.9	1002
06009	.2	.3	.9	3.3	14.6	80.6	1100
12015	.4	.1	.6	3.2	16.3	79.5	1033
18021	.2	.0	.3	1.3	12.8	85.2	1035
TOT	14	6	36	140	799	4483	5499
PCT	.3	.1	.7	2.9	14.3	81.3	100.0

TABLE 12

CUMULATIVE PCT FRQG OF RANGES OF VSBY (MH) AND/OR
CEILING HGT (FEET/MH >4/8) BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	MH <5/8 AND 5+	TOTAL OBS
00003	.7	1.7	7.8	17.3	75.0	339
06009	.8	2.3	12.3	16.0	71.8	489
12015	.2	2.1	10.0	16.7	73.3	320
18021	.0	1.0	3.1	15.3	79.4	309
TOT	9	37	180	337	1940	2087
PCT	.4	1.8	8.8	16.4	74.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FRQG
95/99	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
90/94	.0	.0	.0	.1	.1	.0	.0	.0	8	.2
85/89	.0	.0	.0	.1	.8	1.3	.4	.0	30	2.7
80/84	.0	.0	.2	2.7	12.2	12.7	3.1	.0	430	30.9
75/79	.0	.0	.4	2.4	10.8	28.4	16.2	.0	1243	58.3
70/74	.0	.0	.0	.1	.4	.8	3.3	.0	106	7.8
65/69	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
TOTAL	0	8	1	20	139	532	938	496	2132	100.0
PCT	.0	.0	.0	.9	6.5	25.2	44.0	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALN
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
.6	1.1	.3	.0	.1	.1	.0	.2	.0	.0
9.0	12.2	3.9	1.7	2.2	1.4	.6	.9	.0	.0
9.2	17.2	11.2	7.7	6.3	4.2	1.9	1.8	.0	2.7
.7	1.9	1.2	1.1	.8	1.0	.3	.3	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.6	32.5	16.9	10.6	9.4	6.7	3.1	3.2	.0	4.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	83	82	78	73	71	67	77.3	3140
06009	87	82	81	77	73	70	60	76.9	2012
12015	93	86	83	79	74	72	67	79.2	3123
18021	93	89	83	80	73	73	67	80.1	1824
TOT	93	86	84	78	73	71	60	78.6	9901

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.3	4.3	20.6	46.4	28.0			84	829
06009	.0	.6	3.1	16.4	44.1	33.8			86	461
12015	.0	1.0	7.4	28.4	47.1	18.1			82	618
18021	.0	1.9	10.9	37.9	36.9	12.4			80	477
TOT	0	21	141	582	969	318			83	2201

MARCH

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0009 RIO DE JANEIRO
22.6S 41.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	83 88	89 92	>92	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.0
7/8	.0	.1	.1	.0	.0	.0	.0	.0	35	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	26	.0	.0
3	.0	.1	.3	.0	.0	.0	.0	.0	59	.0	.0
1	.0	.1	.3	.0	.0	.0	.0	.0	119	.0	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	122	.1	.0
-1	.0	.1	.0	.0	.0	.0	.0	.0	291	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	316	.0	.0
-3	.0	.1	.0	.0	.0	.0	.0	.0	429	.0	.0
-4	.0	.1	.0	.0	.0	.0	.0	.0	396	.1	.0
-5	.0	.1	.0	.0	.0	.0	.0	.0	244	.0	.0
-6	.0	.1	.0	.0	.0	.0	.0	.0	144	.0	.0
-7	.0	.1	.0	.0	.0	.0	.0	.0	98	.1	.0
-8	.0	.0	.0	.0	.0	.0	.0	.0	59	.0	.0
-9	.0	.0	.0	.0	.0	.0	.0	.0	26	.0	.0
-10	.0	.0	.0	.0	.0	.0	.0	.0	41	.0	.0
-11	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.0
-12	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
-13	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-14	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
-15	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	16	349	418	10	10	10	10	2368	23	2345
PCT	.1	1.6	23.2	34.8	17.7	2.3	.4	.0	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	8.5	.7	.0	.0	19.0	1.0	11.5	16.2	1.0	.0	.0	29.6

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	10.2	5.1	.3	.0	.0	16.8	.6	7.8	3.5	.2	.0	.0	1.1

PERIOD: (OVER-ALL) 1963-1973

MARCH

TABLE 10 (CONT)

AREA 0009 RIO DE JANEIRO
22.08 41.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
41	.0	.7	.0	.0	.0	.0	.7	.1	.1	.0	.0	.0	.0	.2	
1-2	.1	4.1	.6	.0	.0	.0	4.8	.3	1.8	.7	.0	.0	.0	2.0	
3-4	.0	1.0	.8	.0	.0	.0	1.8	.0	.9	1.4	.0	.0	.0	2.1	
5-6	.0	.4	.8	.1	.0	.0	1.1	.0	.7	.9	.1	.0	.0	1.2	
7	.0	.8	.8	.1	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	6.6	2.8	.3	.0	.0	9.8	.8	2.6	3.2	.2	.0	.0	6.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
41	.0	.3	.0	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.2	
1-2	.0	.8	.3	.0	.0	.0	1.1	.3	.9	.2	.0	.0	.0	1.3	
3-4	.0	.4	.3	.0	.0	.0	.8	.0	.8	.1	.0	.0	.0	.9	
5-6	.0	.1	.1	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.6	.8	.0	.0	.0	2.4	.4	1.8	.5	.0	.0	.0	2.4	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	8.1	4.2	.1	.0	.0	.0	12.3	082
1-2	7.9	29.8	9.1	.0	.0	.0	41.8	
3-4	.0	10.2	17.0	.3	.0	.0	27.7	
5-6	.0	1.7	10.0	1.1	.0	.0	12.8	
7	.0	.7	2.9	.2	.0	.0	3.9	
8-9	.0	.0	.4	.4	.0	.0	.7	
10-11	.0	.0	.1	.4	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.0	46.8	39.7	.6	.0	.0	100.0	

PERIOD: (OVER-ALL) 1963-1973

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	TOTAL	MEAN HGT
41	3.2	16.2	17.3	5.9	1.8	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	799	3
6-7	.1	3.1	10.0	8.8	2.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	429	4
8-9	.2	.7	2.9	2.8	2.2	1.1	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	6
10-11	.0	.4	.6	.9	1.0	.3	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	6
12-13	.0	.0	.5	.4	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
14-15	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
INDEX	3.3	2.8	3.1	2.1	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOTAL	115	348	377	361	146	32	37	9	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1693	4
PCT	6.6	22.9	34.1	21.3	8.6	3.1	2.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

APRIL

TABLE 1

AREA 0009 RIO DE JANEIRO
27.75 41.4W

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	POS NO PCPN	POS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	1.4	.9	1.0	.0	.0	.0	.0	3.4	.8	1.8	1.3	.3	.7	.3
NE	1.9	1.3	.1	.0	.0	.0	.0	3.3	1.9	2.4	2.5	.4	.4	.2
E	2.3	3.6	.8	.0	.0	.0	.0	6.8	4.2	2.1	1.0	.0	.7	.0
SE	6.9	4.8	2.9	.0	.0	.0	.0	14.3	4.4	.9	.0	.0	.3	.0
S	2.9	1.9	1.1	.0	.0	.0	.0	5.7	5.3	2.9	.8	.0	1.1	.2
SW	2.7	2.2	1.2	.0	.0	.0	.0	6.2	3.4	1.7	1.0	.0	1.3	.1
W	4.1	2.6	1.3	.0	.0	.0	.0	8.1	2.1	2.8	1.7	.0	.9	.0
NW	3.0	4.3	2.3	.0	.0	.0	.0	9.8	.4	1.3	.0	.0	.4	.0
VAR	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	.0	.9	.0	.0	.0	.0	2.8	.9	1.9	.9	.0	1.9	.0
TOT PCT	3.1	2.6	1.2	.0	.0	.0	.0	6.8	3.3	2.0	1.1	.0	.7	.1
TOT OBS:	2913													86.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	POS NO PCPN	POS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000	3.2	2.9	1.4	.0	.0	.0	.0	7.3	2.7	4.4	1.2	.0	.4	.0
0600	4.1	2.8	1.3	.0	.0	.0	.0	7.4	4.9	3.8	.9	.0	.1	.0
1200	3.2	3.2	.6	.0	.0	.0	.0	6.8	2.6	.0	1.0	.1	1.2	.3
1800	1.6	2.2	1.4	.0	.0	.0	.0	5.0	3.1	.2	1.2	.0	1.2	.0
TOT PCT	3.0	2.6	1.1	.0	.0	.0	.0	6.7	3.3	2.1	1.1	.0	.8	.1
TOT OBS:	3019													86.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	06	06	12	18	18	21
N	1.2	4.4	3.8	.3	.0	.0		9.1	9.7		6.1	6.4	9.0	12.2	13.3	12.6	7.8
NE	1.9	11.3	7.3	.7	.0	.0		21.4	9.9		19.4	25.9	23.7	20.3	23.0	20.6	19.3
E	2.1	10.9	4.9	.2	.0	.0		19.2	8.7		21.0	22.4	18.7	17.3	14.7	19.1	18.0
SE	1.8	9.9	9.3	.3	.0	.0		20.3	9.6		20.3	17.6	14.7	16.1	13.8	15.9	17.1
S	1.7	6.6	3.6	.3	.0	.0		12.5	9.3		15.4	11.3	10.4	11.8	10.6	11.3	14.3
SW	.0	2.1	2.9	.7	.0	.0		9.3	10.3		6.6	7.6	8.8	10.6	10.2	9.6	11.1
W	.7	2.2	1.3	.3	.0	.0		4.7	9.3		7.9	4.1	3.6	4.3	5.6	3.4	3.2
NW	.7	1.7	.9	.2	.0	.0		3.3	9.1		1.8	3.7	3.3	3.0	4.2	4.9	3.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		4.2	3.8	3.6	2.1	4.4	3.5	2.8
TOT OBS	1624	3417	3033	343	21	1	10439	4.6	9.1		1889	1389	1930	146	1793	1349	149
TOT PCT	13.3	31.8	29.0	3.3	.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	06	06	12	18	18	21
N	3.3	4.3	1.2	.1	.0			9.1	9.7		6.3	9.2	12.7	7.4			
NE	6.7	11.9	2.6	.2	.0			21.4	9.9		29.0	23.3	21.8	20.3			
E	7.8	9.8	1.4	.0	.0			18.2	8.7		21.0	18.6	14.9	17.3			
SE	5.9	8.6	2.0	.1	.0			16.6	9.6		19.3	14.8	14.8	17.3			
S	4.7	5.9	1.7	.2	.0			12.3	9.3		13.0	10.3	10.9	13.4			
SW	3.2	4.7	1.3	.2	.0			9.3	10.3		8.2	9.0	9.9	11.9			
W	1.9	2.0	.6	.1	.0			4.7	9.3		3.5	3.3	3.6	4.4			
NW	1.6	1.2	.3	.1	.0			3.3	9.1		2.4	3.4	4.6	3.0			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	4.8							4.8	.0		4.9	3.4	4.9	2.6			
TOT OBS	4860	3099	1190	103	9	10439		9.1			3248	2096	3342	1773			
TOT PCT	38.8	48.8	11.4	1.0	.0			100.0			100.0	100.0	100.0	100.0			

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1880-1973AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
0000Z	4.9	10.3	33.6	27.8	3.1	.2	.0	8.9	100.0	3248
0300Z	5.4	11.3	32.2	27.7	3.3	.1	.0	8.9	100.0	2096
1201Z	4.9	11.3	49.2	30.3	3.8	.3	.0	9.2	100.0	3342
1802Z	2.6	10.3	32.8	30.3	3.6	.1	.0	9.4	100.0	1773
TOT	482	1142	3417	3033	383	21	1	9.1		10459
PCT	4.6	10.9	31.8	29.0	3.3	.2	.0		100.0	

TABLE 5

PCT PRES OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & DBSCD	TOTAL DBS	MEAN CLOUD COVER
N	3.9	1.3	1.3	.7		3.1
NE	10.3	4.3	3.7	1.9		3.2
E	6.9	3.4	3.0	2.7		3.9
SE	4.2	2.7	3.4	3.2		4.8
S	4.4	3.3	3.0	3.2		4.6
SW	3.3	2.3	4.1	1.8		4.3
W	.8	.3	2.0	.3		3.0
NW	.4	.7	.3	.3		4.3
VAR	.8	.0	.0	.0		.0
CALM	1.6	.7	.2	.2		2.8
TOT DBS	724	392	349	292	2093	4.0
TOT PCT	36.1	19.6	29.7	14.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/M) $\geq 4/8$
AND OCCURRENCE OF NM $\leq 1/8$ BY WIND DIRECTION

	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM $\leq 1/8$ ANY HGT	TOTAL DBS
N	.1	.0	.1	.0	.2	.3	.0	.0	.0	.0	.0	6.8
NE	.0	.0	.1	.9	1.3	1.0	.4	.1	.0	.2	.2	18.1
E	.1	.0	.1	1.3	1.8	.9	.4	.1	.0	.2	.2	12.9
SE	.2	.1	.3	1.1	1.8	1.1	.4	.2	.0	.1	.1	10.0
S	.0	.0	.2	1.3	1.8	1.3	.9	.0	.0	.1	.1	10.3
SW	.0	.1	.1	.9	.8	.8	.3	.1	.1	.1	.1	7.9
W	.0	.0	.0	.4	.3	.2	.1	.0	.0	.1	.1	2.4
NW	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	1.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.1	2.8
TOT DBS	12	3	24	131	173	122	30	11	9	18	1446	2093
TOT PCT	.4	.2	1.2	6.3	8.7	6.1	2.3	.5	.4	.9	72.2	100.0

TABLE 7

CUMULATIVE PCT PRES OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM $\geq 4/8$) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	≥ 10	≥ 5	≥ 2	≥ 1	$\geq 1/2$	$\geq 1/4$	$\geq 1/8$	≥ 0
≥ 10000	1.2	1.4	1.4	1.4	1.3	1.3	1.3	1.3
≥ 5000	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0
≥ 3000	3.2	4.4	4.3	4.3	4.6	4.6	4.6	4.6
≥ 2000	4.4	10.0	10.3	10.4	10.4	10.4	10.4	10.4
≥ 1000	14.5	18.1	18.6	18.8	19.9	19.9	19.9	19.9
≥ 500	19.1	24.0	23.2	23.3	23.4	23.4	23.4	23.4
≥ 300	19.7	23.1	23.3	23.3	23.6	23.6	23.6	23.6
≥ 150	19.8	23.2	23.3	23.7	23.8	23.9	23.9	23.9
≥ 0	19.9	23.3	23.9	27.3	27.4	27.4	27.4	27.4
TOTAL	400	323	333	361	363	364	364	364

TOTAL NUMBER OF DBS: 2093

PCT PRES NM $\leq 1/8$: 72.2

TABLE 7A

PERCENTAGE PRES OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 DBSCD	TOTAL DBS
	14.6	18.3	18.3	13.4	8.3	6.2	4.8	3.6	9.2	2163

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1960-1973

APRIL

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT S	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.6	
2<3	PCP	.0	.1	.2	.4	.2	.1	.0	.1	.0	.0	1.1	
	NO PCP	.1	.4	.4	.3	.2	.4	.0	.0	.0	.0	1.8	
	TOT S	.1	.4	.5	.7	.4	.5	.0	.1	.0	.0	2.9	
3<10	PCP	.1	.3	.6	1.4	.3	.2	.3	.1	.0	.1	3.6	
	NO PCP	1.1	3.8	3.2	3.6	2.6	1.3	.8	.5	.0	.6	17.3	
	TOT S	1.2	4.2	3.8	5.0	2.9	1.5	1.0	.6	.0	.7	21.1	
10+	PCP	.1	.2	.4	.4	.3	.1	.0	.0	.0	.0	1.4	
	NO PCP	9.6	16.8	14.2	10.3	10.9	8.0	2.8	1.3	.0	3.0	73.3	
	TOT S	9.9	17.0	14.5	10.9	11.2	8.1	2.8	1.3	.0	3.0	74.9	
TOT OBS													2913
TOT PCT		7.4	21.0	19.1	16.0	14.6	10.4	4.0	2.3	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.1	.0	.1	.1	.0	.0	.1	.7	
2<3	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	4-10	.1	.2	.2	.2	.2	.2	.1	.1	.0	.0	1.3	
	11-21	.0	.1	.2	.3	.1	.2	.0	.0	.0	.0	1.0	
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT S	.1	.4	.5	.6	.4	.4	.1	.1	.0	.0	2.9	
3<10	0-3	.3	.3	.4	.3	.3	.2	.1	.1	.0	.6	2.5	
	4-10	.6	1.4	1.3	1.3	1.0	.7	.4	.3	.0	.0	7.3	
	11-21	.3	1.3	1.1	1.6	.7	.4	.2	.1	.0	.0	5.7	
	22+	.0	.2	.1	.1	.2	.2	.2	.1	.0	.0	1.1	
	TOT S	1.2	3.2	2.8	3.3	2.2	1.4	.9	.5	.0	.6	16.6	
10+	0-3	1.1	1.7	1.7	1.4	1.2	.5	.4	.3	.0	3.3	11.6	
	4-10	2.7	10.6	9.8	8.9	8.6	4.1	2.1	1.2	.0	.0	43.6	
	11-21	2.4	8.3	4.1	3.0	2.9	2.2	.7	.5	.0	.0	22.3	
	22+	.2	.4	.1	.2	.3	.3	.1	.0	.0	.0	1.7	
	TOT S	7.3	19.2	15.3	11.4	9.9	7.4	3.3	2.2	.0	3.3	79.4	
TOT OBS													5491
TOT PCT		2.1	23.0	19.1	15.7	12.6	9.5	4.4	3.0	.0	4.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1880-1973

APRIL

TABLE 10

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

DISTRIBUTION OF NH 1978 BY HOUR														
HOUR (GMT)	000 149	130 289	200 399	300 599	400 1999	2000 3499	3000 4999	4000 5999	5000 6999	6000 7999	8000+	TOTAL	NH <3/8 ANY MGT	TOTAL OBS
0000Z	.7	.0	.9	7.4	9.6	6.6	1.5	.7	.2	.7	28.4	71.6	342	
0600Z	.8	.8	.6	6.3	7.9	4.0	4.0	1.0	1.0	1.7	28.4	71.6	321	
1201Z	.2	.2	1.7	6.8	8.3	6.6	2.9	.2	.4	.8	27.8	72.2	349	
1802Z	.6	.0	1.4	4.3	7.2	3.7	1.4	.4	.4	.8	22.3	77.7	311	
TOT	12	9	25	124	175	122	52	12	10	20	367	1330	2117	
PCT	.6	.2	1.2	6.3	8.3	5.8	2.5	.6	.5	.9	26.8	73.2	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.2	.2	.5	2.3	19.0	77.9	1602
0600Z	.2	.3	1.1	3.7	16.7	78.2	1200
1201Z	.1	.1	.9	2.4	16.6	79.8	1699
1802Z	.3	.1	.3	2.7	14.9	81.7	1037
TOT PCT	10 .2	10 .2	41 .7	133 8.8	953 17.0	4429 79.1	3598 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR
CEILING MGT (FEET/MH >4/8) BY HOUR

HOUR (GMT)	<130 <500	<600 <1	<1000 <3	1000+ AND 3+	NH <3/8 AND 3+	TOTAL OBS
0000Z	.8	1.9	11.6	19.0	69.3	323
0600Z	.8	2.6	12.1	18.5	69.4	303
1201Z	.2	2.1	11.4	19.1	69.5	320
1802Z	.6	2.0	8.4	15.4	76.2	499
TOT PCT	12 .6	44 2.1	224 10.9	371 18.1	1480 71.0	2033 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
85/89	.0	.0	.0	.1	.2	.3	.0	.0	21	1.0
80/84	.0	.0	.1	.7	2.0	5.8	4.0	.0	297	13.3
75/79	.0	.0	.1	1.4	7.8	18.8	22.0	11.4	1351	61.2
70/74	.0	.0	.0	.8	2.8	6.0	6.6	7.3	306	22.9
65/69	.0	.0	.0	.0	.0	.1	.5	.5	28	1.3
60/64	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL	0	1	3	30	273	691	733	443	2207	100.0
PCT	.0	.0	.2	2.7	12.4	31.3	33.2	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0
80/84	2.3	4.1	2.3	1.3	.0	.0	.0	.0	.0	.0
75/79	4.8	13.7	11.8	11.4	9.1	5.3	2.3	1.3	.0	2.1
70/74	.6	3.4	4.6	4.6	4.1	3.4	1.0	.4	.0	.9
65/69	.1	.1	.1	.3	.3	.1	.1	.0	.0	.1
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	7.7	21.6	18.8	17.6	14.9	9.9	3.7	2.2	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	87	82	80	76	71	69	54	76.0	3218
0600Z	95	82	80	73	71	69	62	73.4	2096
1201Z	93	86	83	77	72	69	64	77.3	3234
1802Z	90	87	84	78	73	70	59	78.3	1719
TOT	95	88	82	77	73	69	62	76.8	10287

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.4	10.8	28.8	36.0	23.0	82	688		
0600Z	.0	1.8	9.7	27.8	34.2	26.4	82	303		
1201Z	.0	3.3	12.2	31.3	31.9	21.2	80	670		
1802Z	.0	5.8	16.4	39.1	29.8	8.9	76	463		
TOT	0	67	278	720	760	467	80	2392		

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 66	66 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	H FOG	HO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
16/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.1	.1	.0	.0	.0	7	.0	.3
9/10	.0	.0	.0	.2	.2	.1	.0	.0	.0	10	.0	.4
7/8	.0	.0	.0	.3	.3	.3	.2	.0	.0	28	.0	1.1
6	.0	.0	.0	.3	.3	.3	.1	.0	.0	29	.0	1.1
5	.0	.0	.0	.4	.4	.4	.2	.0	.0	34	.1	1.1
4	.0	.0	.0	.7	1.3	.8	.0	.0	.0	78	.1	3.0
3	.0	.0	.1	1.3	2.1	.7	.1	.0	.0	106	.0	4.2
2	.0	.0	.2	2.0	3.6	1.1	.1	.0	.0	183	.1	7.2
1	.0	.0	.3	4.2	9.1	1.3	.0	.0	.0	278	.1	10.9
0	.0	.0	.9	7.5	8.2	1.4	.0	.0	.0	494	.3	17.7
-1	.0	.0	1.0	7.3	6.3	.7	.0	.0	.0	390	.2	13.3
-2	.0	.0	.8	6.2	3.4	.4	.0	.0	.0	324	.2	12.6
-3	.0	.0	1.0	4.8	3.1	.0	.0	.0	.0	223	.0	6.9
-4	.0	.0	.9	2.9	1.6	.0	.0	.0	.0	139	.0	3.3
-5	.0	.2	.7	2.1	.7	.0	.0	.0	.0	91	.0	3.6
-6	.0	.1	.6	1.3	.3	.0	.0	.0	.0	56	.0	2.2
-7/-8	.0	.0	.6	1.0	.0	.1	.0	.0	.0	47	.0	1.8
-9/-10	.0	.0	.3	.1	.0	.0	.0	.0	.0	13	.0	.3
-11/-13	.0	.0	.1	.0	.0	.0	.0	.0	.0	6	.0	.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	3		195	1083	1008	204	18	1		2322	31	2491
PCT	.1	.4	7.7	42.9	40.0	8.1	.7	.1	.0	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	2.1
1-3	.1	.0	.0	.0	.0	.0	2.7	.4	.0	.0	.0	.0	.0	.0	9.2
3-4	.1	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	6.0
5-6	.0	.1	.0	.0	.0	.0	.9	.0	.3	1.4	.0	.0	.0	.0	1.8
7	.0	.1	.2	.1	.0	.0	.4	.0	.0	1.1	.1	.0	.0	.0	1.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	.2	.0	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.4	2.2	.3	.0	.0	7.6	.9	11.1	6.3	.6	.0	.0	.0	21.2

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	2.0
1-3	.1	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	8.4
3-4	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.2	3.2	.2	.0	.0	13.9	1.4	8.3	8.4	.5	.0	.0	.0	16.9

PERIOD: (OVER-ALL) 1969-1979

APRIL

TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.75 41.4W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.3	.0	.0	.0	1.3	.3	1.0	.2	.0	.0	.0	1.5
1-2	.6	3.8	1.0	.0	.0	.0	7.3	.0	3.7	1.0	.0	.0	.0	4.7
3-4	.1	1.7	2.6	.1	.0	.0	4.5	.0	1.0	1.7	.2	.0	.0	2.9
5-6	.0	.0	1.1	.2	.0	.0	1.3	.0	.1	1.1	.3	.0	.0	1.4
7	.0	.1	.4	.2	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.2	9.7	.5	.1	.0	15.8	.3	9.7	4.2	.8	.0	.0	10.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.3	.0	.0	.0	.0	.8	.1	.2	.0	.0	.0	.0	.4	
1-2	.2	1.6	.2	.0	.0	.0	1.9	.0	.3	.2	.0	.0	.0	.2	
3-4	.0	.7	.4	.0	.0	.0	1.1	.0	.3	.3	.0	.0	.0	.3	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.3	.8	.0	.0	.0	3.9	.1	1.2	.7	.0	.0	.0	2.1	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.3	9.6	1.0	.0	.0	.0	14.9	871
1-2	2.8	31.2	8.8	.0	.0	.0	42.8	
3-4	.2	12.2	14.4	.0	.0	.0	27.1	
5-6	.0	1.7	7.3	.7	.0	.0	9.8	
7	.0	.2	2.3	.7	.0	.0	3.2	
8-9	.0	.0	1.0	.3	.1	.0	1.3	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	51.0	34.9	2.8	.1	.0	100.0	

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-17	18-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
26	3.8	15.1	14.1	4.7	2.3	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	687	3
6-7	.1	1.0	8.8	10.1	3.1	1.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	449	5
8-9	.0	.6	1.4	3.2	3.1	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	4
10-11	.0	1.1	1.1	.7	.9	.8	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
12-13	.0	.0	.3	.4	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
519	.0	.0	.0	.0	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
IMDET	4.2	3.7	3.4	1.8	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
TOTAL	133	377	407	349	164	78	33	20	10	2	0	0	0	0	0	0	0	0	0	1393	4
PCT	7.0	22.3	29.4	20.6	11.8	4.8	1.9	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1937-1974

MAY

AREA 0009 RIO DE JANEIRO
22.03 41.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCES BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	1.0	.4	.0	.0	.0	.0	.4	1.3	.7	2.1	1.0	.0	1.6	.0	93.3
NE	1.7	.3	.0	.0	.0	.0	.0	2.1	.5	1.3	2.7	.0	1.3	.0	92.4
E	2.7	2.1	.2	.0	.0	.0	.0	5.0	2.7	1.9	1.2	.0	1.2	.0	88.9
SE	4.3	3.3	.7	.0	.0	.0	.0	8.2	3.3	1.1	.7	.0	.1	.0	86.7
S	3.7	3.8	.9	.0	.0	.0	.0	8.1	3.5	.7	1.0	.0	.6	.0	84.0
SW	3.4	3.6	.7	.0	.0	.0	.0	7.6	4.0	1.4	4.6	.0	.6	.0	81.9
W	.8	2.3	.0	.0	.0	.0	.0	3.3	.6	1.8	4.3	.8	1.6	.0	87.3
NW	3.1	2.3	.0	.0	.0	.0	.0	5.7	3.8	.0	3.8	.0	.3	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.3	.0	.0	.0	.0	96.3
TOT PCT	2.6	2.1	.3	.0	.0	.0	.0	4.9	2.3	1.3	2.0	.0	.9	.0	88.3
TOT DBS:	2626														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
0000	2.9	2.4	.9	.0	.0	.0	.0	3.3	2.0	2.6	2.4	.0	.4	.0	86.8
0400	2.4	1.9	.4	.0	.0	.0	.0	4.7	3.1	2.1	1.8	.1	.7	.0	87.7
1200	3.7	2.3	.0	.0	.0	.0	.0	6.0	2.0	.3	2.1	.0	1.1	.0	88.4
1800	1.1	1.8	.0	.0	.0	.0	.0	2.9	2.6	.2	2.3	.0	1.3	.0	90.6
TOT PCT	2.4	2.1	.3	.0	.0	.0	.0	9.0	2.4	1.3	2.2	.0	.9	.0	88.3
TOT DBS:	2741														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT PREG	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	1.1	3.0	2.3	.0	.0	.0		10.2	10.4		6.6	8.0	9.7	8.3	13.2	14.0	10.1
NE	1.8	6.0	7.9	.0	.0	.0		21.1	18.1		20.8	22.1	21.9	20.0	22.3	19.1	19.3
E	1.8	6.6	3.1	.4	.0	.0		16.0	9.4		19.3	17.0	19.3	16.2	13.2	13.7	16.6
SE	1.3	6.3	3.1	.3	.0	.0		13.4	9.7		16.2	16.6	19.7	21.2	14.6	13.9	14.8
S	1.2	6.2	4.0	.7	.1	.0		13.3	10.4		13.0	12.3	11.7	8.4	10.9	10.4	13.3
SW	1.0	3.1	4.4	1.1	.2	.0		11.9	17.0		11.3	11.2	11.1	5.3	11.3	12.3	14.6
W	.7	2.7	1.6	.3	.1	.0		3.4	10.2		4.1	3.1	3.1	3.3	3.9	7.3	3.4
NW	.6	2.1	.7	.1	.0	.0		3.3	8.7		2.2	2.3	4.1	3.1	4.4	4.9	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0		4.2	4.9	3.3	2.8	4.0	4.3	3.1
TOT DBS	1533	3403	3384	499	38	4	11003		9.7		1013	1316	2073	143	1842	1731	1714
TOT PCT	14.0	48.6	32.3	4.3	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT PREG	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.2	3.2	1.0	.2	.0			10.2	10.4		7.2	9.0	1.3
NE	3.9	12.4	2.7	.1	.0			21.1	18.1		21.4	22.3	20.1
E	3.2	9.0	1.7	.1	.0			16.0	9.4		18.4	13.3	13.4
SE	3.3	7.7	2.1	.1	.0			13.4	9.7		16.4	16.0	14.3
S	4.0	6.0	3.1	.2	.0			12.3	10.4		13.9	11.3	10.7
SW	3.2	3.7	2.3	.4	.1			11.9	12.0		11.3	10.8	11.9
W	2.8	2.4	.7	.2	.0			3.4	10.2		4.9	3.2	6.6
NW	1.7	1.4	.4	.1	.0			3.3	8.7		2.3	4.0	4.6
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	4.3							4.3	.0		4.3	3.1	4.1
TOT DBS	3388	3503	1332	139	14	11003		9.7			3431	2218	3373
TOT PCT	33.1	48.7	13.6	1.3	.1			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1957-1974

MAY

AREA 0009 RIO DE JANEIRO
22.83 41.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.3	9.7	30.2	30.9	4.3	.3	.0	9.5	100.0	3431
0600Z	5.1	10.1	49.5	30.9	4.1	.3	.0	9.5	100.0	2218
1200Z	4.1	10.1	46.9	33.5	5.0	.4	.1	9.9	100.0	3373
1800Z	3.1	8.8	48.8	34.4	4.4	.3	.1	10.1	100.0	1861
TOT	474	1079	3405	3584	499	38	4	9.7		11083
PCT	4.3	9.7	48.8	32.3	4.5	.3	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	1.9	2.1	.8		2.1
NE	13.0	4.2	4.3	1.5		2.7
E	7.8	4.1	4.1	2.0		3.5
SE	4.3	3.7	3.8	2.7		4.1
S	4.8	2.8	3.7	2.1		4.1
SW	3.8	2.6	3.4	2.3		4.7
W	1.3	.3	1.4	.6		3.9
NW	.9	.7	1.0	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.2	.8	.4	.2		2.1
TOT OBS	803	400	462	233	1900	3.6
TOT PCT	42.2	21.1	24.3	12.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	100	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3999	4999	6	7999		ANY HGT	OBS
.1	.0	.0	.2	.3	.3	.1	.1	.0	.0	8.6	
.0	.1	.1	.6	.8	.8	.4	.2	.0	.0	20.1	
.0	.0	.1	1.0	1.8	.7	.8	.2	.1	.1	13.3	
.1	.0	.2	1.0	1.8	.8	.9	.1	.1	.0	10.3	
.0	.0	.4	.8	2.2	.5	.9	.1	.0	.0	8.3	
.1	.1	.1	1.0	1.7	1.0	.4	.1	.0	.0	6.6	
.1	.0	.0	.2	.3	.3	.1	.1	.0	.0	2.8	
.0	.0	.1	.3	.2	.3	.1	.1	.0	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	3.2	
.3	.1	.9	3.2	9.3	4.7	2.3	.7	.2	.2	79.8	1900

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISIB (NM)

CEILING (FEET)	VISIB (NM)							
	>10	>9	>8	>7	>6 1/2	>6	>5 1/2	>5
>OR >6500	.4	.5	.5	.5	.5	.5	.5	.5
>OR >5000	1.0	1.1	1.2	1.3	1.3	1.2	1.2	1.2
>OR >3500	2.9	3.6	3.7	3.7	3.7	3.7	3.7	3.7
>OR >2000	6.4	7.6	8.2	8.2	8.2	8.3	8.3	8.3
>OR >1000	13.6	16.6	17.3	17.6	17.7	17.8	17.8	17.8
>OR >500	17.2	20.9	22.3	22.6	22.7	22.8	22.8	22.8
>OR >300	17.7	21.8	23.0	23.4	23.6	23.7	23.7	23.7
>OR >150	17.8	21.9	23.1	23.5	23.7	23.8	23.8	23.8
>OR >0	17.9	22.0	23.3	23.7	24.0	24.1	24.1	24.1
TOTAL	347	426	490	459	464	466	466	466

TOTAL NUMBER OF OBS: 1935

PCT FREQ NM <5/8: 79.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
17.7	19.9	16.6	12.3	8.9	5.4	6.0	4.1	8.8	.2	2040

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1897-1974

MAY

AREA 0009 RIO DE JANEIRO
22.65 41.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.5
	TOT %	.0	.1	.0	.1	.1	.2	.0	.0	.0	.0	.0	.5
2<5	PCP	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.2	.0	.4	.3	.1	.2	.1	.0	.0	.1	.2	2.2
	TOT %	.2	.0	.6	.4	.2	.3	.1	.0	.0	.1	2.5	2.5
5<10	PCP	.1	.2	.3	.3	.5	.5	.1	.1	.0	.0	.0	3.0
	NO PCP	1.7	4.1	2.4	2.7	2.0	2.5	1.1	.6	.0	.4	17.5	
	TOT %	1.8	4.4	2.9	3.0	2.5	3.0	1.2	.7	.0	.4	20.5	
10+	PCP	.0	.1	.2	.2	.3	.2	.1	.0	.0	.0	.0	1.1
	NO PCP	7.9	17.8	13.7	10.8	6.9	7.6	3.3	2.2	.0	2.6	74.8	
	TOT %	8.0	17.9	13.8	11.0	7.2	7.8	3.3	2.2	.0	2.6	75.9	
TOT OBS													
TOT PCT													
		10.0	23.2	17.4	13.4	12.0	11.4	4.4	3.0	.0	3.1	100.0	2623

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	TOT %	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.1	.7
2<5	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.4	.4
	4-10	.1	.1	.2	.2	.2	.1	.1	.0	.0	.0	1.0	
	11-21	.0	.2	.1	.2	.2	.1	.0	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.4	.4	.4	.3	.1	.1	.0	.1	2.3	
5<10	0-3	.2	.2	.1	.2	.2	.1	.1	.1	.0	.3	1.5	
	4-10	.8	1.4	1.2	1.2	.8	.8	.3	.3	.0	.0	7.0	
	11-21	.3	1.1	.9	1.1	.8	1.0	.2	.0	.0	.0	3.4	
	22+	.0	.1	.1	.2	.2	.3	.0	.0	.0	.0	.9	
	TOT %	1.3	2.8	2.4	2.6	1.9	2.2	.7	.4	.0	.3	14.7	
10+	0-3	1.0	1.3	1.6	1.2	1.0	.7	.3	.3	.0	3.6	11.7	
	4-10	4.7	10.3	7.2	6.0	5.2	3.9	2.3	1.8	.0	.0	41.6	
	11-21	3.2	7.8	4.6	3.2	3.0	3.1	1.1	.4	.0	.0	26.4	
	22+	.2	.3	.1	.1	.4	.9	.2	.0	.0	.0	2.3	
	TOT %	9.1	20.2	13.4	10.5	9.6	8.6	4.1	2.7	.0	3.6	81.9	
TOT OBS													
TOT PCT													
		10.7	23.7	16.3	13.0	12.0	11.2	5.0	3.2	.0	4.0	100.0	3229

MAY

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1957-1974AREA 0009 RIO DE JANEIRO
22.63 41.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
06003	.6	.0	.8	3.9	8.6	4.5	3.1	.8	.2	.4	22.9	77.1	490						
06009	.4	.4	1.0	5.9	11.8	3.7	2.9	.0	.2	.9	26.9	79.1	510						
12015	.0	.0	.8	3.9	10.0	4.9	1.2	1.0	.2	.2	24.5	75.5	510						
18021	.0	.0	1.2	4.0	6.9	3.0	2.4	.4	.2	.0	20.0	80.0	504						
TOT	5	2	18	99	188	91	48	14	4	6	475	1939	2014						
PCT	.2	.1	.9	4.9	9.3	4.3	2.4	.7	.2	.3	23.6	76.4	100.0						

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
06003	.1	.1	.6	2.7	16.4	80.0	1587
06009	.2	.1	.7	2.4	14.8	81.9	1185
12015	.0	.2	1.0	2.5	15.5	80.8	1569
18021	.1	.2	.6	2.0	13.1	84.0	1005
TOT	5	4	38	132	811	4352	5346
PCT	.1	.1	.7	2.5	15.2	81.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<100 <1	<1000 <1000	<1000+ <1000+	NM <5/8 AND 5+	TOTAL OBS
06003	.6	1.9	8.3	17.1	74.6	468
06009	.4	2.2	11.0	18.5	70.6	493
12015	.0	1.0	9.1	16.3	74.5	491
18021	.2	1.4	6.6	13.9	79.3	493
TOT	4	32	170	318	1447	1939
PCT	.3	1.7	8.8	16.4	74.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.4	.0	.0	1	.1
85/89	.0	.0	.0	.1	.1	.2	.1	.0	9	.5
80/84	.0	.0	.1	.1	1.0	2.2	1.1	.5	49	4.9
75/79	.0	.0	.1	1.6	4.0	15.0	16.4	7.4	854	44.5
70/74	.0	.0	.1	1.0	5.0	10.9	15.6	11.3	861	44.8
65/69	.0	.0	.0	.1	.5	1.1	1.7	1.7	100	5.2
60/64	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	0	4	221	567	672	402	1921	1921	100.0
PCT	.0	.0	.2	2.9	11.5	29.5	35.0	20.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1
80/84	1.0	1.4	.7	.8	.2	.3	.3	.2	.0	.1
75/79	6.3	11.8	7.1	6.8	5.0	3.3	1.3	1.4	.0	1.4
70/74	3.0	8.4	7.4	7.6	6.8	6.8	2.4	1.3	.0	1.4
65/69	.3	.3	.7	.9	.9	1.3	.3	.1	.0	.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	10.7	21.9	14.0	16.1	13.0	11.8	4.3	3.0	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
06003	84	80	78	73	68	65	59	72.4	3431
06009	39	79	77	73	68	65	59	72.9	2222
12015	94	84	81	75	69	66	61	75.1	3478
18021	92	84	82	76	70	67	63	75.8	1800
TOT	94	83	80	74	68	66	59	74.2	10931

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
06003	.0	1.1	10.6	23.4	39.5	25.4	83	547		
06009	.0	2.1	7.9	24.7	37.8	27.4	83	481		
12015	.0	3.6	11.5	29.7	39.7	19.5	80	538		
18021	.0	3.3	15.3	41.4	26.6	11.1	77	432		
TOT	0	39	227	592	712	428	81	2018		

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1937-1974

MAY

AREA 0009 RIO DE JANEIRO
22.05 41.2W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
9/10	.0	.0	.0	.1	.0	.0	.1	.0	.0	7	.0	.3
7/8	.0	.0	.0	.0	.0	.2	.4	.1	.0	18	.0	.7
6	.0	.0	.0	.0	.2	.3	.2	.0	.0	16	.0	.7
5	.0	.0	.0	.0	.4	.6	.4	.0	.0	40	.0	1.7
4	.0	.0	.0	.2	.7	1.3	.4	.0	.0	58	.0	2.3
3	.0	.0	.0	.0	1.2	1.8	.4	.0	.0	79	.1	3.4
2	.0	.0	.1	.4	3.8	3.1	.2	.0	.0	172	.0	7.3
1	.0	.0	.0	.7	6.4	2.9	.3	.0	.0	235	.1	10.2
0	.0	.0	.1	2.1	10.6	3.5	.4	.0	.0	378	.2	16.3
-1	.0	.0	.1	3.2	7.9	3.1	.0	.0	.0	326	.4	13.8
-2	.0	.0	.0	3.8	8.1	2.4	.0	.0	.0	327	.2	14.1
-3	.0	.0	.3	2.6	4.6	.8	.0	.0	.0	190	.1	8.2
-4	.0	.0	.3	2.7	3.1	.7	.0	.0	.0	160	.2	6.8
-5	.0	.0	.6	2.4	1.9	.2	.0	.0	.0	117	.0	5.1
-6	.0	.0	.3	1.1	.9	.0	.0	.0	.0	34	.0	2.4
-7/-8	.0	.0	.7	1.4	.6	.1	.0	.0	.0	70	.0	3.1
-9/-10	.0	.0	.3	.4	.1	.0	.0	.0	.0	20	.0	.9
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	8	.0	.4
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	3	76	486	1161	485	84	9	2	2289	34	2249
PCT	.0	.1	3.3	21.3	50.9	21.2	2.8	.2	.1	100.0	1.9	98.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.7	.4	.0	.0	.0	.0	1.0	1.0	1.0	.0	.0	.0	.0	2.0
1-2	.4	2.3	.8	.0	.0	.0	3.5	.8	6.3	1.6	.0	.0	.0	8.4
3-4	.0	.0	1.1	.0	.0	.0	1.9	.4	3.4	4.3	.0	.0	.0	8.3
5-6	.0	.2	.7	.1	.0	.0	1.0	.0	.9	3.4	.0	.0	.0	3.9
7	.0	.1	.0	.0	.0	.0	.7	.0	.2	1.1	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
TOT PCT	1.0	4.3	2.7	.1	.0	.0	8.1	3.0	11.8	10.7	.0	.0	.0	24.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.9	1.6	.0	.0	.0	.0	2.5	.2	.9	.0	.0	.0	.0	1.1
1-2	.3	4.7	1.4	.0	.0	.0	6.4	.4	3.0	.3	.0	.0	.0	3.9
3-4	.4	3.3	2.6	.0	.0	.0	6.3	.3	4.0	2.3	.0	.0	.0	3.1
5-6	.0	.1	2.1	.1	.0	.0	2.3	.0	.1	1.4	.0	.0	.0	1.5
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	9.8	6.8	.3	.0	.0	18.6	1.1	8.0	3.2	.0	.0	.0	16.4

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.05 41.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.9	.0	.0	.0	.0	1.2	.1	.7	.0	.0	.0	.0	.8
1-2	.6	2.8	.7	.0	.0	.0	4.1	.2	2.4	.2	.0	.0	.0	2.8
3-4	.1	2.8	2.2	.4	.0	.0	5.5	.0	1.7	.9	.1	.0	.0	2.7
5-6	.0	.5	.7	.0	.0	.0	1.2	.0	.3	.8	.3	.0	.0	1.8
7	.0	.1	.6	.2	.0	.0	.9	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.2	4.2	1.2	.0	.0	13.6	.3	5.3	3.0	1.1	.0	.0	9.6

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.6	.0	.0	.0	.0	.9	.2	.4	.0	.0	.0	.0	.6	
1-2	.1	1.1	.1	.0	.0	.0	1.3	.0	1.1	.1	.0	.0	.0	1.2	
3-4	.0	1.1	.3	.0	.0	.0	1.6	.0	1.0	.4	.0	.0	.0	1.4	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.3	.3	.0	.0	.0	.7	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	2.8	.8	.1	.0	.0	4.1	.2	2.7	1.0	.0	.0	.0	3.9	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.0	6.8	.0	.0	.0	.0	14.8	085
1-2	9.1	24.0	4.8	.0	.0	.0	31.9	
3-4	1.4	17.9	14.3	.8	.0	.0	34.0	
5-6	.0	2.3	9.3	.3	.0	.0	12.0	
7	.0	.4	6.4	.6	.0	.0	7.4	
8-9	.0	.3	.1	.4	.0	.0	.8	
10-11	.0	.1	.4	.3	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.8	51.6	29.1	2.8	.0	.0	100.0	800

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.0	11.5	15.5	4.8	2.9	.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	623	3
6-7	.2	2.2	11.1	10.3	4.6	1.2	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	485	3
8-9	.1	.6	1.7	2.7	2.8	1.6	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	6
10-11	.0	.6	.7	.7	.7	.8	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	6
12-13	.0	.0	.4	.2	.3	.1	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
>13	.0	.0	.0	.1	.4	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	12	10
INDEX	3.7	1.7	4.0	1.6	1.0	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	3
TOTAL	114	268	938	344	207	70	39	12	12	2	1	1	0	0	0	0	0	0	0	1608	4
PCT	7.1	16.7	58.5	21.4	12.9	4.4	2.4	.7	.7	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 15:2-1973
(OVER-ALL) 1854-1973AREA 0009 RIO DE JANEIRO
22.05 41.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
N	.3	.0	.3	.0	.0	.0	.0	1.3	.0	1.9	1.7	.0	1.3	.0	92.9
NE	.7	1.1	.0	.0	.0	.0	.0	2.3	1.4	.3	2.3	.0	.8	.0	93.0
E	1.7	2.3	.9	.0	.0	.0	.0	4.8	2.1	.6	1.1	.0	.7	.0	90.7
SE	2.2	3.1	2.2	.0	.0	.0	.0	8.8	3.9	.9	1.3	.0	1.3	.0	85.8
S	2.9	1.7	2.8	.0	.0	.0	.0	7.3	3.4	1.2	.8	.0	.7	.0	86.6
SW	3.2	1.4	3.1	.0	.0	.0	.0	8.7	2.8	1.0	.7	.0	.7	.0	88.2
W	3.3	1.9	.7	.0	.0	.0	.0	8.1	3.3	1.9	1.0	.0	.0	.0	85.7
NW	3.6	2.3	2.3	.0	.0	.0	.0	9.0	3.7	1.1	3.7	.0	2.3	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.4	1.2	.0	.0	.0	.0	3.6	1.2	1.2	3.6	.0	1.2	.0	89.3
TOT PCT	1.8	1.7	1.3	.0	.0	.0	.0	4.7	2.2	.9	1.6	.0	.9	.0	89.7
TOT OBS	1797														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
0000Z	1.7	1.8	1.8	.0	.0	.0	.0	3.2	2.2	2.0	1.4	.0	.1	.0		89.1
0600Z	2.3	1.7	.9	.0	.0	.0	.0	4.8	3.0	1.4	1.4	.0	.3	.0		89.0
1201Z	2.0	2.0	.3	.0	.0	.0	.0	4.3	1.8	.0	2.3	.0	2.1	.0		89.3
1802Z	2.0	1.2	1.7	.0	.0	.0	.0	4.7	2.0	.3	1.1	.0	.9	.0		91.2
TOT PCT TOT OBS:	2.0	1.7	1.2	.0	.0	.0	.0	4.8	2.2	.9	1.6	.0	.9	.0		89.6
	2896															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-20	21-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	3.6	4.8	.3	.0	.0		12.4	10.3		8.2	9.2	13.1	13.2	13.7	17.2	11.0	10.8
NE	1.7	12.1	8.4	1.2	.0	.0		24.7	10.6		23.4	23.3	23.3	22.2	24.3	22.2	23.2	23.2
E	1.8	8.3	4.4	.6	.0	.0		19.0	9.7		17.8	13.6	14.7	19.9	12.8	12.6	14.8	24.7
SE	1.3	6.0	3.8	.7	.0	.0		12.6	9.9		14.3	13.0	11.0	13.4	11.3	12.3	13.6	19.2
S	1.1	3.1	9.2	.3	.0	.0		10.0	10.0		11.9	11.1	9.3	9.4	8.3	8.1	10.8	8.9
SW	1.0	3.8	4.0	.8	.1	.0		11.7	11.1		12.7	11.1	10.1	10.3	11.3	11.2	14.3	8.8
W	.8	2.8	1.3	.3	.1	.0		3.2	9.3		3.3	4.8	3.9	3.8	7.0	6.7	3.6	3.3
NW	.6	2.4	1.0	.1	.0	.0		4.1	8.9		1.8	3.4	4.3	3.1	3.9	6.4	3.2	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0		8.4	8.3	8.0	2.2	3.3	3.3	3.4	2.0
TOT OBS	1269	3489	3387	307	24	5	11172		9.7		2013	1928	2104	136	1834	1449	1739	153
TOT PCT	14.0	49.1	38.1	4.3	.2	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.0	6.4	1.9	.1	.0		12.4	10.3	8.6	13.1	18.4	11.0		
NE	8.3	13.3	4.0	.2	.0		24.3	10.6	24.2	23.3	23.3	23.1		
E	3.0	8.1	1.7	.1	.0		18.0	9.7	16.9	13.0	12.7	19.6		
SE	4.3	6.1	1.8	.2	.0		12.6	9.9	13.7	11.2	11.9	13.7		
S	3.6	4.7	1.6	.1	.0		10.0	10.0	11.6	9.3	8.2	10.6		
SW	3.6	3.6	2.1	.3	.0		11.7	11.1	12.0	10.1	11.2	13.9		
W	2.3	2.1	.7	.2	.0		3.2	9.3	4.1	3.9	6.8	3.6		
NW	1.8	1.9	.4	.0	.0		4.1	8.9	2.3	4.2	6.1	3.3		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.8						4.8	.0	8.4	3.8	3.3	3.3		
TOT OBS	4024	3402	1398	143	5	11172		9.7	1361	1242	1483	1306		
TOT PCT	36.0	48.4	14.3	1.3	.0		100.0		100.0	100.0	100.0	100.0		

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973AREA 0009 RIO DE JANEIRO
22.65 41.3M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	6.4	9.5	48.8	30.4	4.7	.2	.0	9.4	100.0	3941
0600Z	5.8	9.4	48.1	32.1	4.8	.3	.0	9.6	100.0	2242
1200Z	3.3	7.1	49.9	33.0	4.4	.2	.1	9.9	100.0	3483
1800Z	3.3	8.9	49.3	33.9	4.8	.2	.1	10.0	100.0	1908
TOT	593	1036	2489	2182	907	24	5	9.7		11172
PCT	4.8	9.3	49.1	32.1	4.9	.2	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.9	2.3	1.6	.9		2.8
NE	14.2	3.4	3.8	1.0		2.7
E	9.2	4.7	3.8	2.1		3.2
SE	3.9	2.7	3.8	1.7		4.1
S	3.1	2.1	2.3	1.6		4.2
SW	3.1	2.1	4.0	2.0		4.6
W	1.1	.8	1.2	.8		3.6
NH	1.2	.7	.9	.5		3.9
VAR	.0	.0	.0	.0		2.0
CALM	2.2	.6	.4	.3		2.3
TOT OBS	921	490	499	282	2102	3.4
TOT PCT	43.8	21.4	23.7	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

BY WIND DIRECTION							AND ACCURACY BY WIND SPEED											TOTAL	
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 399	400 499	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY MG	TOTAL OBS	
N	5.9	2.3	1.4	.9		2.8	.0	.0	.1	.3	.6	.2	.1	*	.1	.0	9.3		
NE	14.2	3.4	5.4	1.0		2.7	.0	*	.1	.3	1.0	.8	*	*	*	*	22.9		
E	9.2	4.7	3.8	2.1		3.2	.0	.1	.3	.7	1.7	.8	.6	.1	.0	.0	15.4		
SE	3.9	2.7	3.6	1.7		4.1	.1	.0	.2	.7	1.4	.7	.3	.1	*	.0	8.1		
S	3.1	2.1	2.3	1.4		4.2	*	.0	.3	.2	1.2	.6	.4	.1	.0	.0	6.3		
SW	3.1	2.1	4.0	2.0		4.6	.1	.1	.2	.7	1.5	1.0	.4	.2	*	.0	5.8		
W	1.1	.8	1.2	.6		4.6	.0	*	.0	.3	.6	.4	*	.2	.0	*	2.5		
NH	1.2	.7	.9	.3		3.9	.0	.0	*	.2	.6	.2	.2	*	.0	.0	2.4		
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.2	.6	.4	.3		2.3	.0	.0	.0	*	.1	.2	*	*	.0	.0	3.0		
TOT OBS	921	490	499	282	2102	3.4	3	6	27	77	176	104	69	18	6	7	1613	2102	
TOT PCT	43.8	21.4	23.7	11.0	100.0		.2	.3	1.3	3.7	8.4	4.9	3.1	.9	.2	.3	76.7	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>>0	>0
>OR >2000	.4	.6	.6	.6	.6	.6	.6	.6
>OR >1000	.7	1.0	1.0	1.3	1.3	1.3	1.3	1.3
>OR >500	2.3	3.4	3.8	4.4	4.4	4.4	4.4	4.4
>OR >200	3.9	7.8	8.4	9.1	9.1	9.1	9.1	9.1
>OR >100	12.6	13.8	14.7	17.4	17.4	17.4	17.4	17.4
>OR >50	15.0	17.2	20.2	20.9	21.0	21.0	21.1	21.1
>OR >20	15.7	20.4	21.4	22.2	22.3	22.3	22.4	22.4
>OR >10	15.8	20.4	21.6	22.6	22.8	22.8	22.8	22.8
>OR >0	16.0	20.8	21.8	22.6	22.7	22.7	22.8	22.8
TOTAL	336	437	459	475	477	477	480	481

TOTAL NUMBER OF OBS: 2102

PCT FREQ NM <5/8: 77.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
21.0	20.1	19.8	16.1	7.4	5.7	2.7	4.9	7.7	2344

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1954-1973

JUNE

AREA 0009 RIO DE JANEIRO
22.65 41.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1-2	PCP	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.0	.3	.2	.0	.0	.0	.0	.8	
2-5	PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	.2	.8	.4	.3	.3	.4	.3	.3	.0	.0	3.0	
	TOT %	.2	.9	.4	.4	.3	.5	.3	.3	.0	.0	3.4	
5-10	PCP	.1	.4	.7	.4	.3	.3	.2	.1	.0	.1	2.9	
	NO PCP	2.1	3.8	3.7	2.3	1.6	2.1	.7	.8	.0	.7	20.2	
	TOT %	2.2	4.1	4.4	2.7	1.9	2.4	.9	.9	.0	.7	23.1	
10+	PCP	.1	.2	.3	.3	.2	.1	.1	.2	.0	.0	1.4	
	NO PCP	8.0	20.1	14.6	8.2	6.3	7.7	2.3	1.8	.0	2.2	71.4	
	TOT %	8.1	20.3	14.9	8.5	6.5	7.8	2.4	2.0	.0	2.2	72.8	
TOT OBS													2796
TOT PCT		10.6	27.3	19.7	12.1	9.2	11.0	9.6	8.2	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.2	.2	.0	.0	.0	.1	.7	
2-5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.1	.3	.2	.2	.1	.2	.1	.1	.0	.0	1.3	
	11-21	.0	.2	.1	.1	.1	.2	.1	.0	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.6	.3	.4	.2	.3	.3	.2	.0	.1	2.6	
5-10	0-3	.3	.3	.2	.2	.1	.1	.1	.2	.0	.7	2.2	
	4-10	.7	1.3	1.4	1.2	.8	.9	.4	.3	.0	.0	7.2	
	11-21	.7	1.7	.9	.8	.6	.9	.2	.1	.0	.0	9.8	
	22+	.0	.3	.2	.2	.2	.2	.1	.0	.0	.0	1.2	
	TOT %	1.6	3.6	2.8	2.3	1.6	2.1	.8	.6	.0	.7	16.3	
10+	0-3	1.2	1.5	1.2	1.1	.9	.7	.7	.5	.0	3.3	11.3	
	4-10	3.0	11.1	8.0	5.1	3.4	4.6	1.9	1.8	.0	.0	40.8	
	11-21	4.0	8.1	3.6	2.1	2.3	3.2	1.0	.7	.0	.0	29.0	
	22+	.2	.3	.2	.3	.2	.3	.2	.0	.0	.0	2.6	
	TOT %	10.4	21.2	13.1	8.6	7.0	9.3	3.8	2.7	.0	3.3	79.7	
TOT OBS													3468
TOT PCT		12.3	23.7	16.4	11.3	9.1	12.2	5.0	3.5	.0	4.4	100.0	

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1834-1973AREA 0009 RIO DE JANEIRO
22.6S 41.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8 AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	.2	.2	.9	4.7	6.1	4.1	2.3	1.1	.4	.2	20.0	80.0	559
0600	.4	.5	1.8	2.9	8.7	3.5	2.4	.7	.0	.9	22.0	78.0	949
1200	.0	.4	1.1	3.0	9.7	6.9	3.5	.0	.0	.0	23.1	76.9	938
1800	.4	.0	1.2	3.5	8.1	4.8	3.9	.9	.4	.4	23.5	76.5	967
TOT	5	8	28	78	100	100	68	19	4	8	901	1712	2219
PCT	.2	.4	1.3	3.5	8.1	4.8	3.1	.8	.2	.4	22.6	77.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.4	.1	.8	2.4	17.5	78.8	1699
0600	.6	.0	1.1	2.7	16.5	79.2	1219
1200	.4	.1	.8	3.3	16.9	78.6	1600
1800	.2	.3	.9	3.1	19.3	80.2	1098
TOT	23	6	48	199	929	4406	5971
PCT	.4	.1	.9	2.9	16.7	79.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND
CEILING HGT (FEET) NH >4/8 BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <3	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
0000	.2	1.9	10.1	12.8	77.1	23
0600	.6	2.7	10.5	14.9	7.6	929
1200	.0	2.1	10.8	19.1	70.1	919
1800	.4	2.2	10.4	16.4	73.2	937
TOT	6	47	220	332	1980	2102
PCT	.3	2.2	10.5	15.8	79.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
98/94	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
85/80	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
80/84	.0	.0	.1	.1	.2	.3	.3	.1	27	1.3
75/79	.0	.0	.4	.9	2.1	9.1	2.2	.0	472	23.1
70/74	.0	.0	.1	1.1	7.0	14.8	25.0	15.7	1298	63.4
65/69	.0	.8	.0	.1	1.6	3.6	4.0	3.3	238	11.6
60/64	.0	.0	.0	.0	.1	.1	.0	.0	10	.5
TOTAL	1	0	7	39	228	590	787	494	2044	100.0
PCT	.0	.0	.3	1.9	11.1	28.9	38.5	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
98/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.3	.2	.1	.1	.2	.0	.2	.0	.0
75/79	4.3	7.0	4.5	1.8	1.0	2.1	.6	1.0	.0	.7
70/74	3.5	16.2	13.3	8.4	8.7	7.5	2.2	1.6	.0	2.8
65/69	.7	1.8	2.1	1.9	1.2	1.8	.9	.4	.0	.2
60/64	.0	.0	.1	.0	.1	.1	.2	.0	.0	.0
TOTAL	10.8	25.1	20.2	12.2	9.9	11.6	3.9	3.1	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	81	78	74	72	67	63	58	71.8	3538
0600	92	77	73	72	66	63	54	71.2	2246
1200	89	82	79	73	67	64	59	73.4	3396
1800	91	85	80	74	68	65	57	74.1	1859
TOT	92	81	78	73	67	64	54	72.6	11035

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.3	9.4	24.5	39.2	25.5	82	598		
0600	.2	.8	7.3	19.4	41.6	30.3	85	498		
1200	.0	2.8	11.8	28.8	39.9	16.6	80	941		
1800	.0	4.3	14.2	34.7	32.6	12.3	78	470		
TOT	1	47	752	963	808	450	81	2101		

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973AREA 0009 RIO DE JANEIRO
22.85 41.3W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.1	.0	.0	.0	.1	3	.0	.2
9/10	.0	.0	.0	.1	.0	.1	.2	.0	11	.0	.5
7/8	.0	.0	.0	.0	.2	.3	.3	.0	23	.0	1.0
6	.0	.0	.1	.0	.2	.4	.5	.0	18	.0	.8
4	.0	.0	.0	.1	.7	.4	.2	.0	33	.0	1.4
3	.0	.0	.0	.4	1.3	.8	.2	.0	61	.0	2.7
2	.0	.0	.1	.3	2.4	.5	.2	.0	79	.1	3.4
1	.0	.0	.1	1.4	5.0	1.0	.0	.0	172	.1	7.4
0	.0	.0	.3	3.3	7.4	1.1	.0	.0	276	.1	11.9
-1	.0	.0	.5	6.4	8.2	1.2	.0	.0	374	.3	16.1
-2	.0	.0	.4	6.7	6.7	.5	.0	.0	328	.3	14.0
-3	.0	.0	.9	7.3	5.2	.3	.0	.0	319	.0	13.9
-4	.0	.0	.7	4.3	3.1	.1	.0	.0	194	.3	8.2
-5	.0	.1	1.2	3.7	1.9	.0	.0	.0	158	.0	6.9
-6	.0	.0	1.2	2.2	1.3	.0	.0	.0	109	.0	4.8
-7/-8	.0	.0	.7	.9	.5	.0	.0	.0	48	.0	2.1
-9/-10	.0	.2	.7	1.0	.3	.0	.0	.0	49	.0	2.1
-11/-12	.0	.1	.2	.3	.0	.0	.0	.0	15	.0	.7
-13/-14	.0	.3	.2	.1	.0	.0	.0	.0	15	.0	.7
-15/-16	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	18	164	896	1018	163	26	3	2291	27	2264
PCT	.0	.8	7.2	39.1	44.4	7.1	1.1	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1949-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSR	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.3	.0	.0	.0	.0	1.9	.7	1.2	.0	.0	.0	.0	1.9
1-2	.1	2.4	1.3	.0	.0	.0	3.8	.9	6.7	1.9	.0	.0	.0	9.4
3-4	.0	.8	2.0	.0	.0	.0	2.8	.0	2.7	6.4	.0	.0	.0	9.0
5-6	.3	.1	.7	.0	.0	.0	.8	.0	.0	3.8	.2	.0	.0	4.4
7	.0	.0	.3	.1	.0	.0	.3	.0	.0	1.6	.3	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	4.3	.1	.0	.0	9.8	1.6	11.2	13.6	.9	.0	.0	27.3

MSR	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.3	.0	.0	.0	.0	1.6	.5	.8	.0	.0	.0	.0	1.6
1-2	.7	5.4	.9	.0	.0	.0	7.1	.5	3.9	.7	.0	.0	.0	5.1
3-4	.0	2.7	3.6	.0	.0	.0	6.3	.0	1.2	1.4	.0	.0	.0	2.3
5-6	.0	.7	1.1	.2	.0	.0	1.9	.0	.5	.3	.0	.0	.0	.7
7	.0	.3	.7	.1	.0	.0	1.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.4	.3	.0	.0	.9	.0	.0	.0	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	10.3	6.9	.6	.0	.0	19.3	1.0	6.4	3.1	.1	.0	.0	10.6

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0009 RIO DE JANEIRO
22.6S 41.3W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.3	.0	.0	.0	.0	.5	.3	.3	.0	.0	.0	.0	.8
1-2	.3	2.9	1.3	.0	.0	.0	4.5	.2	.3	2.0	.0	.0	.0	3.7
3-4	.2	1.4	1.1	.0	.0	.0	2.7	.0	1.6	1.7	.1	.0	.0	3.4
5-6	.0	.1	.7	.0	.0	.0	.9	.0	.3	.4	.0	.0	.0	.7
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.3	.0	.0	.7
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.7	3.7	.1	.0	.0	9.3	.3	3.9	4.4	.9	.2	.0	11.9

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.6	.0	.0	.0	.0	.8	.1	.7	.0	.0	.0	.0	.8
1-2	.2	1.2	.3	.0	.0	.0	1.7	.1	2.1	.3	.0	.0	.0	2.7
3-4	.0	.1	.4	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.9
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	1.0	.3	.3	.0	4.1	.2	3.4	.9	.0	.0	.0	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	6.7	.2	.0	.0	.0	13.2	
1-2	3.7	27.9	8.9	.0	.0	.0	40.6	
3-4	.2	11.0	16.6	.1	.0	.0	27.9	
5-6	.0	3.4	7.0	.3	.0	.0	9.7	
7	.0	.3	3.4	1.3	.0	.0	5.2	
8-9	.0	.1	.3	.3	.1	.0	1.8	
10-11	.0	.0	.3	.7	.2	.0	1.4	
12	.0	.0	.0	.0	.1	.0	.1	
13-16	.0	.1	.0	.1	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.1	.0	.0	.1	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.3	48.5	37.4	3.3	.6	.0	100.0	883

PERIOD: (OVER-ALL) 1963-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	16.2	13.2	4.9	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	719	3
6-7	.3	3.3	8.7	8.0	3.8	1.2	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	434	4
8-9	.1	.7	2.2	4.0	3.7	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	209	5
10-11	.0	.9	.7	.3	1.3	1.0	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
12-13	.0	.0	.2	.3	.1	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	7
>13	.0	.0	.0	.0	.3	.1	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	13	11
INDEX	4.8	2.3	2.7	1.8	1.3	.2	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	241	3
TOTAL	137	407	318	342	212	73	34	16	7	0	0	0	0	1	0	0	0	0	0	1747	4
PCT	7.8	23.3	19.7	19.6	12.1	4.2	1.9	.9	.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1894-1973

JULY

AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.2	.5	.5	.0	.0	.0	.0	1.2	1.3	1.2	2.3	.2	1.4	.0	92.3
NE	.7	.6	.5	.0	.0	.0	.0	1.7	.8	.4	2.8	.8	1.0	.0	92.0
E	2.2	1.3	.8	.0	.0	.0	.0	4.3	1.6	.3	.9	.2	1.1	.0	91.4
SE	1.8	2.2	.4	.0	.0	.0	.0	4.3	5.1	.0	.3	.1	.8	.0	89.5
S	3.3	1.3	1.2	.0	.0	.0	.0	6.3	4.2	.9	.6	.2	.3	.0	87.8
SW	4.7	2.3	.0	.0	.0	.0	.0	7.2	3.3	.0	1.9	.0	.0	.0	87.4
W	2.2	.6	1.2	.0	.0	.0	.0	4.0	3.0	.0	2.0	.0	1.6	.0	89.4
NW	2.3	.0	2.0	.0	.0	.0	.0	4.2	1.1	1.1	4.2	.0	2.8	.0	37.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	1.1	.0	.0	.0	.0	4.3	.0	.0	3.2	.0	7.4	.0	85.1
TOT PCT	1.9	1.2	.7	.0	.0	.0	.0	3.8	2.2	.4	1.8	.1	1.3	.0	90.3
TOT OBS:	3038														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	1.3	1.3	.6	.0	.0	.0	.0	3.6	1.4	1.0	1.4	.0	.7	.0	92.1
0400	2.1	1.4	1.0	.0	.0	.0	.0	4.3	3.4	.3	2.1	.0	.8	.1	88.3
1200	2.4	1.0	.2	.0	.0	.0	.0	3.7	2.2	.2	2.3	.1	2.4	.0	89.2
1800	1.9	.8	.8	.0	.0	.0	.0	3.6	1.6	.0	1.4	.3	1.1	.0	92.1
TOT PCT	2.0	1.2	.7	.0	.0	.0	.0	3.8	2.7	.4	1.8	.1	1.3	.0	90.4
TOT OBS:	3203														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	3.1	4.3	.7	.0	.0		11.3	11.0	8.3	10.0	11.3	11.9	13.6	14.7	10.2	9.0	
NE	1.3	11.7	11.3	1.6	.0	.0		26.4	11.3	26.9	27.1	27.1	23.3	26.4	24.1	27.0	26.4	
E	1.3	9.2	9.6	.5	.0	.0		16.8	9.8	20.3	17.7	16.3	16.8	14.4	14.8	17.0	21.1	
SE	.9	6.9	3.9	.7	.1	.0		12.3	10.3	12.7	12.9	12.6	13.4	12.0	12.9	12.8	11.4	
S	1.0	3.1	3.4	.8	.2	.0		10.7	11.2	12.3	10.0	10.1	9.9	9.8	10.0	12.1	11.8	
SW	.9	4.6	3.3	.7	.2	.0		9.8	11.3	10.0	9.8	9.4	7.3	10.0	9.3	10.8	9.2	
W	.7	2.3	1.2	.3	.1	.0		4.6	10.1	3.2	3.8	4.9	6.1	3.4	6.2	3.6	4.4	
NW	.3	2.1	.9	.2	.0	.0		3.7	9.3	1.9	3.1	3.7	4.3	4.9	3.3	3.2	4.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1							4.1	.0	4.4	3.6	4.6	6.4	3.6	3.4	3.2	2.3	
TOT OBS	1399	3602	3937	620	69	3	11432		10.4		1933	1932	2121	213	1833	1798	1737	243
TOT PCT	12.2	47.2	34.6	5.4	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.2	5.7	2.2	.2	.0			11.3	11.0	9.0	11.4	14.2	10.1
NE	3.6	14.7	3.8	.3	.0			26.4	11.3	27.0	24.8	23.3	26.9
E	3.3	9.0	3.3	.1	.0			16.8	9.8	19.1	16.3	16.6	17.3
SE	3.9	6.4	2.0	.2	.1			12.3	10.3	12.7	12.7	12.1	12.6
S	3.3	3.0	2.0	.3	.1			10.7	11.2	11.3	10.1	9.9	12.1
SW	2.9	4.8	1.8	.3	.1			9.8	11.3	9.9	9.3	9.6	10.6
W	1.8	2.1	.6	.1	.0			4.6	10.1	3.3	3.0	3.8	3.7
NW	1.7	1.5	.3	.1	.0			3.7	9.3	2.3	3.8	3.1	3.4
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	4.9	4.8	3.3	3.1
TOT OBS	3643	3632	1963	167	33	11432		10.4		1937	2334	3631	1980
TOT PCT	22.0	49.1	17.1	1.3	.3			100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1973
(COVER-ALL) 1954-1973

JULY

AREA 0009 RIO DE JANEIRO
22.75 41.34

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	4.9	7.6	47.9	33.7	5.2	.7	*	10.2	100.0	3487
0600Z	4.8	8.4	47.9	33.2	5.1	.6	.1	10.3	100.0	2324
1200Z	3.3	8.5	46.3	35.3	5.9	.5	.1	10.3	100.0	3691
1800Z	3.1	7.7	46.7	36.4	5.3	.8	.0	10.6	100.0	1990
TOT	4.3	8.6	34.02	39.7	6.0	.6	9	10.4		11492
PCT	4.1	8.1	47.2	34.6	5.4	.6		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN
						CLOUD COVER
N	5.4	1.8	2.0	.9		2.9
NE	19.0	3.4	3.9	1.6		2.7
E	7.3	3.9	3.3	2.3		3.7
SE	3.3	2.6	3.7	2.3		4.4
S	2.6	1.9	2.8	2.7		4.9
SW	2.6	2.0	2.4	2.7		4.7
W	1.0	.9	1.0	1.2		4.8
NW	1.2	.7	.5	1.6		3.8
VAR	1.0	.0	.0	.0		.0
CALM	1.8	.3	.7	.7		3.5
TOT OBS	990	436	959	346	3301	3.7
TOT PCT	41.7	18.9	24.3	13.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/M) >4/8
AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	6000	8000+	NM <9/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999	ANY HGT	OBS
*	.0	.1	.3	.5	.2	.4	.0	.1	*	8.1
*	.1	.7	1.2	.8	.4	.2	*	*	*	24.9
.1	*	.1	.8	1.8	.9	.5	.2	.7	.1	14.3
.0	*	.1	1.1	2.1	1.1	.5	.2	*	.0	7.0
*	*	.8	2.0	1.1	.1	.1	.1	.1	.0	5.7
*	.1	.8	1.6	.9	.4	.1	.1	.1	.0	5.4
*	.0	.2	.9	.6	.3	.2	.0	.0	.0	2.1
.0	.0	.1	.3	.2	.1	.1	.0	.0	.0	1.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	*	.4	.1	.1	.0	.0	.1	2.7
8	4	18	118	241	129	79	23	10	9	1662
.3	.2	.8	9.1	10.3	5.6	3.4	1.0	.4	.4	72.2
										100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>5	>1 1/2	>1 1/4	>1 1/8	>1
>6500	.5	.7	.8	.8	.8	.8	.8	.8
>3000	1.1	1.5	1.9	2.0	2.0	2.0	2.0	2.0
>1500	3.0	4.0	5.6	5.9	6.0	6.0	6.0	6.0
>1000	6.3	8.6	11.0	11.4	11.6	11.7	11.7	11.7
>500	15.6	18.3	21.1	21.6	21.8	21.9	21.9	21.9
>400	17.1	22.9	26.0	26.3	26.7	26.9	26.9	26.9
>300	17.8	23.4	26.6	27.2	27.4	27.5	27.5	27.5
>150	17.6	23.6	26.7	27.3	27.6	27.7	27.7	27.7
>50	17.7	23.8	26.9	27.6	27.8	28.0	28.0	28.0
TOTAL	416	958	632	647	653	657	658	658

TOTAL NUMBER OF OBS: 2346

PCT FREQ NM <9/8: 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
									OBSCD OBS
21.1	18.6	19.3	9.9	7.1	4.8	5.4	6.5	11.1	.2
									2394

JULY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1954-1973AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	*	.0	.0	*	*	*	.0	.0	.0	.0	.1		
	NO PCP	.0	.0	*	.0	.0	.1	.0	.0	.0	*	.1		
	TOT %	*	.0	*	*	*	.1	.0	.0	.0	*	.3		
1/2<1	PCP	.0	.0	*	.0	.0	*	.1	.0	.0	.0	.1		
	NO PCP	.0	.1	.1	*	.0	.0	.0	.1	.0	.0	.2		
	TOT %	.0	.1	.1	*	.0	*	.1	.1	.0	.0	.4		
1<2	PCP	.0	*	.2	*	*	*	.0	*	.0	.0	.3		
	NO PCP	*	.1	.0	.1	.1	.0	.1	*	.0	.0	.4		
	TOT %	*	.1	.2	.1	.1	.0	.1	.1	.0	.0	.7		
2<5	PCP	.0	.1	*	.1	.1	.1	*	*	.0	.0	.5		
	NO PCP	.0	1.7	1.0	.0	.6	.4	.1	.2	.0	.1	5.3		
	TOT %	.0	1.8	1.0	.7	.6	.5	.2	.3	.0	.1	5.8		
5<10	PCP	*	.5	.5	.3	.3	.3	*	*	.0	.1	1.4		
	NO PCP	2.2	5.8	3.1	2.3	2.3	1.8	1.4	.8	.0	.9	20.6		
	TOT %	2.2	6.1	3.6	2.6	2.6	2.0	1.4	.9	.0	.9	22.4		
10+	PCP	*	.2	.1	.1	.3	.2	*	*	.0	.0	.9		
	NO PCP	7.2	20.8	14.0	7.9	7.2	6.5	2.3	1.6	.0	1.9	69.3		
	TOT %	7.2	21.0	14.2	7.9	7.5	6.7	2.4	1.6	.0	2.0	70.5		
TOT OBS														3057
TOT PCT		10.1	29.0	19.1	11.4	10.9	9.4	4.1	2.9	.0	3.1	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	*	*	.0	*	.1	
	4-10	.0	*	*	.0	*	*	*	*	.0	*	.1	
	11-21	*	.0	*	*	.0	*	.0	.0	.0	*	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	
	TOT %	*	*	*	*	*	.1	*	*	.0	*	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
	4-10	.0	.1	.1	*	*	*	*	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	*	*	.1	*	*	.0	.0	.4	
1<2	0-3	*	.0	.0	.0	*	.0	*	*	.0	*	.1	
	4-10	*	*	.1	.1	*	.0	*	*	.0	.0	.3	
	11-21	.0	*	*	*	.1	*	*	.0	.0	.0	.2	
	22+	.0	.0	*	*	*	*	*	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.6	
2<5	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.2	
	4-10	.2	.3	.2	.3	.2	.1	.1	.1	.0	.0	1.5	
	11-21	.2	.7	.3	.3	.2	.2	*	*	.0	.0	2.0	
	22+	*	.1	*	*	*	*	.0	*	.0	.0	.3	
	TOT %	.4	1.1	.6	.6	.5	.4	.1	.2	.0	.1	4.0	
5<10	0-3	.1	.2	.1	.1	*	.1	.1	.1	.0	.0	1.7	
	4-10	.8	1.6	1.1	1.0	.9	.9	.4	.3	.0	.0	7.1	
	11-21	.5	1.9	1.2	.8	1.1	.6	.3	.1	.0	.0	6.3	
	22+	.1	.2	.1	.1	*	.1	*	.0	.0	.0	.6	
	TOT %	1.5	4.0	2.5	1.9	2.1	1.6	1.0	.5	.0	.0	16.0	
10+	0-3	.3	1.0	1.1	.7	.7	.6	.4	.3	.0	2.6	7.9	
	4-10	4.0	10.0	8.9	5.5	4.1	3.8	1.5	1.3	.0	.0	39.1	
	11-21	3.6	10.3	4.7	2.3	3.0	3.1	.8	.4	.0	.0	28.3	
	22+	.4	1.2	.4	.3	.4	.5	.2	*	.0	.0	3.4	
	TOT %	8.6	22.5	15.1	8.8	8.2	8.0	2.9	2.1	.0	2.6	78.8	
TOT OBS													5749
TOT PCT		10.7	27.8	18.4	11.5	11.0	10.1	4.1	2.9	.0	3.3	100.0	

44.2

TABLE 10

AREA 0009 RIO DE JANEIRO
22.75 41.24

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

OCCURRENCE OF NM 45/8 BY HOUR													
HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 2499	3500 4499	5000 5499	6500 7999	8000+	TOTAL	NM 45/8 ANY HGT	TOTAL OBS
00003	.0	.2	.5	5.0	6.1	4.1	3.3	1.0	.7	.3	21.1	78.9	606
06009	.8	.0	.6	4.5	12.0	8.1	3.4	.9	.6	.5	29.5	70.5	641
12013	.0	.3	1.3	6.0	10.4	6.8	4.1	1.4	.2	.5	30.9	69.1	634
18021	.5	.2	.5	3.4	10.7	4.4	5.1	1.1	.2	.2	26.3	73.7	609
TOT	.8	.4	1.8	11.8	24.5	15.4	.99	2.8	1.0	.9	67.3	181.7	2490
PCT	.3	.2	.7	4.7	9.8	3.4	4.0	1.1	.4	.4	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

MDUR (MTH)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00609	.3	.4	.5	4.3	16.2	78.1	1711
06609	.5	.5	1.3	4.7	18.3	74.5	1331
12615	.2	.5	.8	3.3	16.2	79.1	1720
18621	.1	.3	.6	3.0	15.3	76.3	1198
TOT PCT	13	23	48	254	974	4984	5900
	.3	.4	.8	4.3	16.3	77.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM 24/8), BY HOUR

MOIR (GMT)	<150 (<50Y)	<600 (<1)	<1000 (<5)	1000+ AND+)	NH AND +)	TOTAL DBS
00609	.0	1.1	13.4	14.0	72.6	99.1
06209	.6	1.7	13.6	20.6	65.6	102.1
12219	.0	2.1	14.3	20.1	63.5	100.0
18221	.3	1.6	11.6	16.3	67.9	97.8
TOT	0	38	214	435	1802	2346
PC7	.3	1.6	13.4	18.3	68.3	100.0

4442 12

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP #	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.0	.0	1	.7
86/86	.0	.0	.1	.1	.1	.2	.1	.0	18	7
78/79	.6	.0	.1	.4	1.7	4.9	2.2	.0	10	10.2
70/74	.0	.0	.3	1.4	7.9	13.0	26.1	.0	1202	60.3
69/69	.0	.0	.0	1.4	3.9	6.3	8.0	.0	340	23.4
60/64	.0	.0	.0	.2	.8	.8	.9	.0	69	3.2
59/59	.0	.5	.0	.0	.0	.0	.0	.0	2	.1
TOTAL	.0	.0	.0	3.8	20.8	39.8	76.4	36.6	2129	100.0
PCT	.0	.0	.4	1.4	7.5	20.1	36.0	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

WIND DIRECTION BY TEMP									
N	NE	E	SE	S	SW	W	NW	VAR	CALN
.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
2.3	3.8	.0	.0	.2	.1	.1	.0	.0	.0
6.1	12.7	1.6	1.1	.9	.2	.3	.0	.0	.0
.1	19.8	12.7	6.1	9.0	5.0	2.0	1.5	.0	1.9
.0	4.9	9.7	4.3	3.9	3.9	1.4	.0	.0	1.1
.0	.0	.0	.0	.0	.7	.3	.2	.0	.3
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.5	27.7	19.4	12.0	10.9	9.9	4.2	2.8	.0	3.3

TABLE 18

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUSE	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(1971)									(1971)
00000	84	76	73	70	64	61	53	70.2	3494
00000	80	74	74	70	64	61	56	69.7	2362
12E15	87	81	78	72	63	62	55	71.9	3664
1A212	88	82	78	73	66	63	59	72.7	1950
TOY	88	80	77	71	69	62	55	71.0	11410

TABLE 10

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURLY	0-29	30-59	60-69	70-79	80-89	90-100	TOTAL
1971							289
00003	0	3.1	5.9	26.0	38.3	21.7	81
00009	0	4.6	18.9	22.5	39.2	25.0	82
12819	0	2.8	19.4	33.3	32.4	16.6	98
18821	0	6.1	19.8	30.7	33.2	10.2	77
TOT	0	89	792	670	793	411	2205

JULY

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1854-1973

TABLE 17

AREA 0009 RIO DE JANEIRO
22.7S 41.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF POG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	83 88	TOT	N POG	NO POG
14/16	.0	.0	.0	.0	.0	.1	.1		4	.0	.2
11/13	.0	.0	.0	.0	.0	.1	.0		3	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.1	.0	11	.0	.3
7/8	.0	.0	.0	.1	.2	.3	.0	.0	21	.0	.9
6	.0	.0	.0	.1	.2	.2	.0	.0	13	.0	.6
5	.0	.0	.0	.0	.0	.3	.1	.0	41	.0	1.7
4	.0	.0	.2	.9	1.4	.3	.0	.0	70	.1	2.8
3	.0	.0	.2	1.2	2.3	.2	.1	.0	96	.0	3.9
2	.0	.0	.3	3.3	3.4	.3	.0	.0	183	.0	7.6
1	.0	.1	.8	4.9	4.8	.3	.0	.0	243	.2	10.6
0	.0	.2	1.8	10.0	3.3	.2	.0	.0	422	.1	17.4
-1	.0	.1	2.3	7.3	3.3	.3	.0	.0	334	.2	13.3
-2	.0	.2	3.4	7.8	2.7	.0	.0	.0	342	.1	13.9
-3	.0	.3	1.9	3.9	1.3	.0	.0	.0	178	.1	7.2
-4	.0	.3	2.3	4.2	.4	.1	.0	.0	182	.2	7.2
-5	.0	.3	1.4	1.7	.2	.0	.0	.0	93	.0	3.8
-6	.0	.3	1.4	1.2	.0	.0	.0	.0	71	.0	2.9
-7/-8	.0	.3	1.2	.9	.0	.0	.0	.0	67	.0	2.8
-9/-10	.0	.2	.3	.2	.0	.0	.0	.0	20	.0	.8
-11/-13	.0	.3	.1	.0	.0	.0	.0	.0	11	.0	.3
TOTAL	4	73	433	1177	644	83	11	3	2492	27	2403
PCT	.2	3.1	17.8	48.4	26.3	3.3	.3	.1	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.7	.0	.0	.0	.0	1.0	.3	1.8	.1	.0	.0	.0	2.3
1-2	.0	1.9	.7	.0	.0	.0	3.7	.3	7.1	3.2	.0	.0	.0	10.8
3-4	.0	.7	1.6	.2	.0	.0	2.4	.0	2.3	5.4	.4	.0	.0	8.5
5-6	.0	.3	1.0	.1	.0	.0	1.9	.0	.4	4.3	.0	.0	.0	5.0
7	.0	.1	.3	.3	.0	.0	.4	.0	.2	2.1	1.0	.0	.0	3.2
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.0	.0	.0	.0	1.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.7	4.1	.6	.0	.0	8.6	.8	12.3	16.9	2.3	.0	.0	32.2

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.4	.0	.0	.0	.0	1.9	.1	.3	.0	.0	.0	.0	.4
1-2	.2	5.3	1.9	.0	.0	.0	7.7	.1	3.9	.4	.0	.0	.0	4.4
3-4	.2	2.3	2.9	.2	.0	.0	5.3	.0	1.4	1.4	.0	.0	.0	2.9
5-6	.0	1.0	1.7	.1	.0	.0	2.8	.0	.4	1.3	.0	.0	.0	1.9
7	.0	.0	1.1	.3	.0	.0	1.4	.0	.0	.3	.2	.1	.0	.8
8-9	.0	.0	.1	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.4	.1	.0	.0	.8
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.2	7.9	1.0	.0	.0	20.1	.2	6.2	4.6	.6	.1	.0	11.7

PERIOD: (OVER-ALL) 1963-1973

JULY
TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.75 41.3W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.6	.1	.0	.0	.0		.9	.0	.4	.0	.0	.0	.0		.4
1-2	.0	1.6	.3	.0	.0	.0		2.1	.1	1.6	.5	.0	.0	.0		2.3
3-4	.0	1.2	1.4	.1	.0	.0		3.0	.0	1.0	1.9	.0	.0	.0		2.9
5-6	.0	.2	1.4	.1	.0	.0		1.8	.0	.2	1.6	.3	.0	.0		2.3
7	.0	.0	.8	.2	.0	.0		1.0	.0	.0	.6	.0	.0	.0		.6
8-9	.0	.0	.1	.0	.0	.0		.1	.0	.0	.2	.0	.0	.0		.2
10-11	.0	.0	.3	.1	.0	.0		.3	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	3.7	3.0	.4	.0	.0		9.3	.1	3.2	4.8	.6	.0	.0		8.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.2	.0	.0	.0	.0		.2	.1	.2	.0	.0	.0	.0		.3	
1-2	.2	1.3	.1	.0	.0	.0		1.6	.0	1.2	.0	.0	.0	.0		1.2	
3-4	.0	.7	.7	.0	.0	.0		1.4	.0	.0	.3	.0	.0	.0		.3	
5-6	.0	.2	.3	.1	.0	.0		.6	.0	.0	.2	.0	.0	.0		.3	
7	.0	.0	.1	.0	.0	.0		.1	.0	.0	.1	.1	.0	.0		.2	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.4	1.1	.1	.0	.0		3.8	.1	1.5	.6	.1	.0	.0		2.3	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	5.9	.2	.0	.0	.0	11.1	
1-2	1.7	24.2	7.3	.0	.0	.0	33.2	
3-4	.2	9.6	19.9	.8	.0	.0	29.5	
5-6	.1	3.0	12.1	1.6	.0	.0	16.7	
7	.0	.3	5.6	1.9	.1	.0	7.9	
8-9	.0	.7	2.0	.3	.0	.0	2.3	
10-11	.0	.0	1.1	.6	.0	.0	1.7	
12	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.2	.9	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	43.0	44.8	5.8	.1	.0	100.0	1093

PERIOD: (OVER-ALL) 1960-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	14.6	14.4	5.3	1.8	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	772
6-7	.1	2.0	8.0	9.4	4.9	2.0	1.3	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	539
8-9	.0	.4	1.7	3.7	3.3	3.0	.7	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256
10-11	.0	.8	.3	.7	.8	1.0	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
12-13	.0	.0	.7	.2	.3	.2	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38
15-19	.0	.0	.0	.1	.0	.0	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13
INDEX	4.7	1.5	3.0	1.4	.9	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236
TOTAL	146	370	346	602	237	124	61	19	18	2	1	2	0	0	0	0	0	0	0	0	1923
PCT	7.6	19.2	28.4	20.9	12.3	6.4	3.2	.9	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1955-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	CRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.9	.7	.6	.0	.0	.0	.0	2.1	.0	.6	2.8	.0	3.1	.0	91.4
NE	.4	.3	.6	.0	.0	.0	.0	1.3	1.1	.5	3.1	.0	2.4	.0	91.5
E	1.6	.6	1.0	.0	.0	.0	.0	3.2	2.4	.7	1.9	.2	2.3	.0	89.3
SE	2.7	.9	2.2	.0	.0	.0	.0	6.1	2.3	.6	1.6	.0	1.3	.0	88.2
S	5.8	2.0	2.0	.0	.0	.0	.0	9.6	3.4	.3	1.6	.3	3.1	.0	81.6
SW	2.3	3.9	1.2	.0	.0	.0	.0	7.3	2.9	2.9	2.0	.1	3.6	.0	81.2
W	4.5	3.6	1.6	.0	.0	.0	.0	8.9	.6	1.0	5.3	.0	6.3	.0	77.7
NW	1.9	.8	3.1	.0	.0	.0	.0	5.8	.0	.0	8.3	.0	3.3	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.3	1.3	.0	.0	.0	.0	2.7	.0	1.3	8.0	2.7	4.0	.0	81.3
TOT PCT TOT OBS:	1.8 2869	1.1	1.2	.0	.0	.0	.0	4.0	1.6	.8	2.8	.1	2.3	.0	87.8

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRIG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0600Z	1.8	.8	1.1	.0	.0	.0	.0	3.8	1.0	.7	1.4	.1	1.7	.0	91.3
0600Z	1.4	.6	2.0	.0	.0	.0	.1	3.9	2.0	2.2	3.3	.0	2.3	.0	86.0
1201Z	2.8	2.1	.3	.0	.0	.0	.0	3.4	1.8	.1	4.2	.1	4.0	.0	84.4
1802Z	.7	.7	1.0	.0	.0	.0	.0	2.4	1.3	.3	2.8	.3	3.6	.0	89.2
TOT PCT TOT OBS:	1.7 2993	1.1	1.1	.0	.0	.0	.0	3.9	1.6	.8	3.0	.1	3.0	.0	87.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-29	34-47	00	03					06	09	12	15	18	21	
N	.8	4.4	5.4	1.2	.0	.0	11.9	12.6	8.2	9.0	11.1	12.9	16.1	13.9	10.8	9.6		
NE	1.0	11.4	19.0	2.5	.1	.0	30.0	12.7	29.2	29.4	30.6	27.7	30.1	28.4	22.4	28.7		
E	1.3	8.6	6.3	.7	.0	.0	17.2	10.3	20.6	20.3	17.3	19.2	14.3	13.1	13.3	18.2		
SE	1.0	9.7	3.7	.6	.0	.0	11.1	10.4	13.1	11.8	9.9	11.2	9.1	10.3	12.3	14.1		
S	1.1	6.8	3.4	.3	.0	.0	9.8	10.4	12.2	10.0	9.3	7.9	8.1	8.2	11.0	8.8		
SW	.7	4.0	3.6	1.0	.1	.0	9.4	12.1	8.8	9.0	9.4	8.3	9.8	8.2	10.2	10.3		
W	.6	2.1	1.3	.3	.0	.0	4.3	10.1	3.0	3.8	4.3	7.3	3.3	3.2	3.1	3.8		
NW	.4	1.4	.8	.2	.0	.0	2.9	9.9	1.6	2.3	2.6	3.1	3.0	4.9	2.3	3.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.3						3.3	.0	3.3	4.2	3.0	2.4	3.9	2.8	2.1	1.6		
TOT OBS	1087	4494	4133	739	38	0	10493		11.1	1811	1362	1908	168	1764	1393	1637		
TOT PCT	10.4	42.4	39.7	7.1	.4	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.3	3.9	3.1	.4	.0		11.9	12.6	8.6	11.2	16.0	10.7		
NE	4.9	16.6	7.8	.7	.0		30.0	12.7	25.3	30.3	29.3	32.0		
E	4.8	9.7	2.3	.1	.0		17.2	10.3	20.3	17.3	14.8	13.6		
SE	3.6	3.4	1.9	.2	.0		11.1	10.4	12.5	10.0	9.6	12.6		
S	3.2	4.8	1.7	.1	.0		9.8	10.4	11.2	9.4	8.2	10.8		
SW	2.3	4.3	2.1	.4	.0		9.4	12.1	8.9	9.4	9.3	10.2		
W	1.5	2.0	.7	.1	.0		4.3	10.1	3.4	4.8	3.4	3.2		
NW	1.1	1.3	.4	.1	.0		2.9	9.9	2.0	2.6	3.9	2.8		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.3						3.3	.0	3.7	4.8	3.4	2.1		
TOT OBS	2878	5251	2109	209	6	10493		11.1	1173	2076	3337	1847		
TOT PCT	27.3	50.2	20.2	2.0	.1		100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1911-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.7	7.1	44.0	37.4	7.2	.6	.0	11.0	100.0	2173
0600Z	4.8	6.7	41.5	40.0	6.5	.1	.0	11.0	100.0	2076
1200Z	3.4	7.5	41.0	40.7	7.0	.3	.0	11.2	100.0	2357
1800Z	2.1	5.3	43.3	41.6	7.2	.3	.0	11.5	100.0	1547
TOT	368	719	4434	4155	739	38	0	11.1		10433
PCT	3.3	6.6	42.4	39.7	7.1	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
N	7.3	1.9	1.9	.6		2.4
NE	20.6	6.9	5.3	1.8		2.3
E	8.7	3.9	4.0	7.1		3.2
SE	2.8	1.9	3.0	1.9		4.3
S	2.2	1.0	2.9	3.4		3.2
SW	1.7	.8	2.6	2.9		3.4
W	1.2	.3	.8	1.3		4.8
NW	.5	.2	.4	.3		4.0
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.6	.4		3.0
TOT OBS	1002	369	464	313	2148	3.4
TOT PCT	46.6	17.2	21.6	14.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.3	.4	.2	.0	.1	.0	10.4
NE	.0	.0	.1	.7	1.7	1.2	.4	.1	.6	.0	30.1
E	.0	.0	.1	.7	1.3	.9	.8	.1	.0	.1	14.5
SE	.0	.0	.1	1.0	.9	.8	.5	.1	.2	.1	3.7
S	.2	.0	.1	.9	1.5	1.3	.8	.3	.1	.1	4.4
SW	.2	.0	.1	.8	1.5	.7	.6	.2	.0	.2	3.7
W	.0	.0	.0	.3	.6	.7	.1	.0	.0	.0	1.8
NW	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.2	.3	.0	.1	.0	.0	.0	2.0
TOT OBS	11	2	13	109	180	130	80	19	9	10	2148
TOT PCT	.5	.1	.6	5.1	8.4	6.1	3.7	.9	.4	.5	73.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>3	>1	>1/2	>1/4	>30YD	>0
> OR >3000	.6	.6	.7	.8	.9	.9	.9	.9
> OR >2000	1.0	1.1	1.4	1.6	1.7	1.8	1.8	1.8
> OR >1500	3.7	4.4	5.1	5.5	5.6	5.6	5.7	5.7
> OR >1000	7.3	9.4	10.3	11.1	11.4	11.5	11.6	11.6
> OR >500	12.3	17.2	18.6	19.3	19.6	19.7	19.8	19.8
> OR >300	16.3	22.1	23.7	24.4	24.8	24.9	25.0	25.0
> OR >200	16.7	22.6	24.3	25.0	25.4	25.5	25.6	25.6
> OR >150	16.7	22.7	24.4	25.1	25.3	25.3	25.7	25.7
> OR >0	16.7	22.8	24.6	25.6	26.0	26.0	26.2	26.2
TOTAL	367	500	559	561	569	571	574	574

TOTAL NUMBER OF OBS: 2192

PCT FREQ NM <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	DBSCO	TOTAL OBS
27.1	16.0	12.3	10.0	7.7	4.8	4.8	4.0	11.0	.4		2318

PERIOD: (PRIMARY) 1911-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.1	.1	.1	.1	.1	.0	.0	.1	.6	
	TOT %	.0	.2	.1	.1	.1	.1	.1	.1	.0	.1	.7	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.4	
	NO PCP	.1	.3	.1	.1	.2	.1	.1	.1	.0	.0	1.0	
	TOT %	.1	.3	.2	.2	.3	.2	.1	.1	.0	.0	1.4	
2<5	PCP	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.3	
	NO PCP	.4	1.0	.8	.4	.5	.3	.2	.2	.0	.2	4.3	
	TOT %	.4	1.0	.9	.4	.6	.4	.3	.2	.0	.2	4.6	
5<10	PCP	.0	.3	.2	.3	.4	.3	.2	.0	.0	.0	1.7	
	NO PCP	2.2	3.2	3.2	1.9	2.3	2.2	1.0	.7	.0	.6	19.4	
	TOT %	2.2	3.5	3.4	2.2	2.7	2.5	1.2	.7	.0	.7	21.1	
10+	PCP	.1	.2	.2	.2	.3	.0	.1	.0	.0	.0	1.2	
	NO PCP	8.9	24.8	13.1	6.9	6.0	4.9	2.3	1.1	.0	1.6	69.8	
	TOT %	9.1	25.0	13.3	7.1	6.3	4.9	2.4	1.2	.0	1.6	71.0	
TOT OBS													
TOT PCT													
		12.0	32.7	17.9	10.0	9.9	8.2	4.3	2.3	.0	2.6	100.0	2864

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.4	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.7	
	11-21	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.2	.2	.2	.2	.1	.1	.0	.0	1.3	
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	.6	
	4-10	.2	.3	.3	.2	.3	.2	.2	.1	.0	.0	1.8	
	11-21	.1	.6	.4	.2	.2	.2	.0	.0	.0	.0	1.7	
	22+	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.4	1.3	.8	.5	.5	.3	.3	.1	.0	.3	4.6	
5<10	0-3	.2	.2	.3	.3	.3	.1	.1	.1	.0	.6	2.2	
	4-10	1.0	1.3	1.6	1.0	1.3	1.1	.6	.4	.0	.0	8.7	
	11-21	.6	2.3	1.3	.7	.9	1.0	.3	.1	.0	.0	7.4	
	22+	.0	.4	.2	.1	.1	.3	.0	.0	.0	.0	1.3	
	TOT %	1.8	4.0	3.4	2.2	2.6	2.5	1.1	.6	.0	.6	19.3	
10+	0-3	.3	.6	.8	.5	.7	.3	.5	.2	.0	1.9	6.1	
	4-10	3.1	9.3	7.0	4.2	2.7	2.6	1.3	.8	.0	.0	31.2	
	11-21	4.8	12.8	9.7	2.8	2.5	2.5	.9	.3	.0	.0	32.2	
	22+	.5	1.8	.4	.3	.7	.6	.2	.0	.0	.0	4.1	
	TOT %	9.0	24.8	13.8	7.8	6.1	6.1	2.9	1.3	.0	1.9	73.7	
TOT OBS													
TOT PCT													
		11.4	31.0	18.3	10.7	9.4	9.3	4.3	2.2	.0	3.1	100.0	3436

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.9	.2	.9	4.3	6.8	4.8	3.4	.9	.5	.4	23.2	76.8	561
06009	.7	.2	.9	5.8	7.5	6.6	4.9	.4	.2	.5	27.7	72.3	548
12019	.2	.0	.2	4.8	8.8	7.1	3.4	1.0	.5	.2	26.2	73.8	588
18021	.2	.0	.3	4.9	8.7	4.9	3.3	1.4	.3	.9	24.9	75.1	575
TOT PCT	11 .5	2 .1	13 .6	113 5.0	181 8.0	193 5.9	89 3.7	21 .9	9 .4	11 .5	379 23.3	1693 74.3	2272 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.3	.3	1.2	4.8	18.2	75.2	1878
06009	1.3	.3	1.0	5.0	16.1	72.3	1190
12019	1.1	.3	1.3	4.6	20.4	71.6	1003
18021	.7	.6	1.8	4.8	21.2	70.9	1123
TOT PCT	47 .8	23 .5	76 1.4	276 5.0	1093 19.7	4037 72.7	5584 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.9	2.4	12.7	14.2	72.8	545
06009	.8	3.1	15.7	18.4	65.8	521
12019	.4	2.3	12.8	19.3	65.0	571
18021	.2	1.8	12.4	16.8	70.4	555
TOT PCT	12 .5	32 2.4	293 13.4	378 17.2	1581 69.4	2192 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
80/84	.0	.1	.2	.4	.7	.4	.0	.1	34	1.7
75/79	.0	.0	.1	.4	1.5	5.3	2.7	.7	213	10.7
70/74	.0	.0	.1	.9	4.7	12.7	23.8	14.5	1123	56.6
65/69	.0	.0	.0	1.2	4.0	9.4	9.6	7.3	346	27.5
60/64	.0	.0	.1	.3	.8	.6	.3	1.1	68	3.3
55/59	.0	.0	.0	.0	.0	.1	.0	.1	2	.1
TOTAL	0	1	9	61	231	487	723	470	1984	100.0
PCT	.0	.1	.7	3.1	11.6	24.5	36.5	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.3	.4	.1	.2	.2	.2	.0	.0	.0	.1
75/79	2.8	4.8	1.2	.6	.4	.3	.4	.2	.0	.2
70/74	7.0	21.9	10.1	5.4	4.6	3.5	1.3	.9	.0	1.7
65/69	1.7	3.0	6.1	4.4	4.2	3.2	1.4	.5	.0	1.0
60/64	.2	.2	.2	.2	.8	.9	.6	.2	.0	.1
55/59	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	12.2	32.1	17.8	10.8	10.2	8.2	3.1	1.8	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	76	74	70	64	62	56	69.9	3174
06009	83	76	74	70	64	61	55	69.4	2090
12019	90	80	77	71	66	62	55	71.7	3290
18021	90	82	78	73	66	63	55	72.3	1813
TOT	90	80	76	71	64	62	55	70.8	10357

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.3	8.0	23.9	34.9	30.8	33	522		
06009	.0	2.7	8.4	16.9	40.1	31.9	83	474		
12019	.0	4.8	12.9	23.8	37.9	20.6	80	559		
18021	.0	4.2	17.1	33.3	32.1	13.3	78	474		
TOT	0	72	233	496	736	490	81	2029		

AUGUST

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1855-1974AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	59 54	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	MD FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	9	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	18	.0	.8
7/8	.0	.0	.0	.0	.2	.3	.3	.1	.0	.0	28	.0	1.2
6	.0	.0	.0	.0	.1	.6	.4	.1	.0	.0	31	.0	1.3
5	.0	.0	.0	.1	.3	1.4	.9	.1	.0	.0	57	.0	2.3
4	.0	.0	.0	.4	1.6	1.8	.6	.0	.0	.0	101	.2	4.1
3	.0	.0	.1	.4	2.0	2.2	.9	.0	.0	.0	121	.0	9.2
2	.0	.0	.1	.9	4.6	4.3	.9	.0	.0	.0	237	.2	10.0
1	.0	.0	.0	1.3	6.6	4.3	.2	.0	.0	.0	287	.2	12.1
0	.0	.0	.0	2.3	9.9	4.3	.2	.0	.0	.0	306	.3	16.7
-1	.0	.0	.0	2.3	7.6	2.6	.0	.0	.0	.0	262	.1	12.4
-2	.0	.0	.0	2.7	6.7	1.6	.0	.0	.0	.0	269	.6	11.0
-3	.0	.0	.0	1.8	3.9	.7	.0	.0	.0	.0	153	.2	6.3
-4	.0	.0	.0	2.3	2.1	.4	.0	.0	.0	.0	116	.1	5.0
-5	.0	.0	.0	1.1	1.1	.2	.0	.0	.0	.0	79	.0	3.4
-6	.0	.0	.0	.9	.9	.2	.0	.0	.0	.0	55	.1	2.3
-7/-8	.0	.0	.0	.7	.4	.1	.0	.0	.0	.0	41	.0	1.6
-9/-10	.0	.1	.5	.2	.1	.0	.0	.0	.0	.0	21	.0	.9
-11/-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	1	7	71	427	1121	967	88	19	1	1	2323	32	2271
PCT	.0	.3	3.1	18.4	48.3	25.3	3.8	.8	.0	.0	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.1	.4	.0	.0	.0	.0	.5	01	.0	1.0	.0	.0	.0	.0	1.0
1-2	.1	1.4	.5	.0	.0	.0	1.9	1-2	.4	8.9	3.1	.0	.0	.0	10.4
3-4	.0	.0	1.5	.2	.0	.0	2.4	3-4	.2	3.3	8.3	1.4	.0	.0	13.3
5-6	.0	.1	1.3	.1	.0	.0	1.5	5-6	.0	.7	7.4	.9	.0	.0	8.9
7	.1	.2	1.1	.2	.0	.0	1.6	7	.0	.0	2.4	1.0	.0	.0	3.3
8-9	.0	.0	.1	.4	.0	.0	.3	8-9	.0	.0	1.2	.8	.0	.0	2.0
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.1	.2	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.6	.0	.1	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	4.9	1.0	.0	.0	8.3	TOT PCT	.4	12.0	23.4	4.2	.1	.0	40.3

HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.1	.6	.2	.0	.0	.0	.9	01	.0	.6	.0	.0	.0	.0	.6
1-2	.4	4.2	1.1	.0	.0	.0	5.7	1-2	.0	1.6	.3	.0	.0	.0	1.9
3-4	.0	3.1	3.8	.0	.0	.0	6.9	3-4	.0	1.7	.9	.1	.0	.0	2.7
5-6	.0	.6	3.5	.3	.0	.0	4.4	5-6	.0	.2	2.2	.0	.0	.0	2.4
7	.0	.0	.9	.2	.0	.0	1.1	7	.0	.2	.3	.1	.0	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3	8-9	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.2	.0	.0	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.6	9.9	.3	.0	.0	19.3	TOT PCT	.0	4.6	4.0	.4	.0	.0	8.9

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0009 RIO DE JANEIRO
22.75 41.3M

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.6	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.4	1.4	.4	.0	.0	.0	2.1	.1	1.6	.7	.0	.0	.0	2.4
3-4	.1	.7	2.0	.2	.0	.0	3.1	.0	.1	1.3	.1	.0	.0	1.7
5-6	.0	.1	1.2	.1	.0	.0	1.3	.0	.0	1.0	.1	.0	.0	1.1
7	.0	.0	.9	.1	.0	.0	1.0	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.7	4.7	.8	.0	.0	8.6	.1	1.9	3.0	.7	.0	.0	6.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.1	.1	.0	.0	.0	.3	
1-2	.0	1.3	.2	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.6	.3	.2	.0	.0	1.3	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	1.1	.3	.0	.0	3.7	.0	.9	.3	.0	.0	.0	1.3	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.0	3.0	.3	.0	.0	.0	7.7	035
1-2	1.6	18.8	6.1	.0	.0	.0	26.6	
3-4	.3	10.3	18.3	2.2	.0	.0	31.3	
5-6	.0	1.7	18.4	1.5	.0	.0	19.6	
7	.1	.4	6.8	1.8	.0	.0	9.1	
8-9	.0	.2	1.9	1.4	.0	.0	3.5	
10-11	.0	.3	.3	.2	.0	.0	.8	
12	.0	.0	.8	.3	.1	.0	1.3	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	35.0	31.2	7.5	.1	.0	100.0	945

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-46	49-60	61-70	71-86	J7+	TOTAL	MEAN HGT
<6	1.7	12.6	14.6	6.3	1.9	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	676	3
6-7	.2	1.9	10.0	10.6	6.2	1.2	1.0	.3	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	566	5
8-9	.0	.4	1.7	3.7	3.1	2.6	.7	.7	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	239	7
10-11	.0	.0	.3	.3	1.0	.6	.4	.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	63	5
12-13	.0	.0	.0	.3	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
13-15	.0	.0	.0	.2	.1	.0	.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	10
INDPT	3.6	1.3	3.1	2.0	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	203	3
TOTAL	97	292	343	422	233	93	91	28	9	2	3	2	2	1	0	0	0	0	0	1780	4
PCT	3.4	16.4	30.5	23.7	13.2	3.2	2.9	1.6	.3	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SIG
N	2.8	.4	1.1	.0	.0	.0	.0	4.2	1.9	.4	3.6	.0	7.8	.0 82.5
NE	1.4	.5	.2	.0	.0	.0	.0	2.1	.5	.4	4.0	.1	5.5	.0 87.3
E	2.2	.7	1.4	.0	.0	.0	.0	4.1	2.4	.4	2.0	.0	6.7	.0 84.5
SE	5.5	1.5	3.2	.0	.0	.0	.0	9.6	3.5	1.8	1.7	.0	4.6	.0 79.7
S	2.2	1.6	2.6	.0	.0	.0	.0	6.4	2.5	.5	3.2	.0	5.3	.0 82.4
SW	4.1	3.1	2.3	.0	.0	.0	.0	9.7	2.4	1.5	1.9	.4	7.0	.0 77.8
W	5.3	1.0	1.4	.0	.0	.0	.0	7.8	1.6	.8	6.9	.8	5.3	.0 76.1
NW	2.6	.0	1.9	.0	.0	.0	.0	4.3	.0	1.9	4.8	.0	12.5	.5 76.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALP	5.9	.0	2.0	.0	.0	.0	.0	7.8	3.9	2.0	7.8	.0	19.6	.0 60.8
TOT PCT	2.7	1.0	1.4	.0	.0	.0	.0	4.9	1.8	.7	3.3	.1	6.3	.0 83.0
TOT OBS:	2778													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SIG
0000Z	3.6	1.6	1.6	.0	.0	.0	.0	6.8	2.2	1.8	2.3	.1	4.9	.1 81.8
0600Z	2.9	1.3	1.3	.0	.0	.0	.0	5.3	1.8	1.4	3.3	.0	4.2	.0 84.7
1200Z	2.2	.9	1.1	.0	.0	.0	.0	4.0	1.7	.0	4.4	.1	7.3	.0 82.4
1800Z	2.1	.1	1.6	.0	.0	.0	.0	3.8	1.1	.0	3.1	.1	6.6	.0 83.1
TOT PCT	2.7	1.0	1.4	.0	.0	.0	.0	5.0	1.7	.7	3.4	.1	6.3	.0 83.0
TOT OBS:	2895													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	.6	3.2	4.8	1.2	.2	.0		9.2	13.6	7.1	7.1	10.5	10.4	12.7	12.2	9.8	6.5
NE	1.0	9.2	14.4	3.9	.1	.0		28.6	14.0	27.3	27.3	30.2	32.3	28.0	26.3	30.3	39.0
E	1.1	8.3	7.0	1.3	.0	.0		17.8	11.3	20.3	19.4	16.9	20.8	16.0	16.8	16.8	20.7
SE	1.0	6.4	5.8	.6	.0	.0		11.7	10.2	13.6	11.7	10.3	12.2	11.0	12.0	11.8	12.1
S	.8	9.0	3.4	.7	.0	.0		10.0	10.6	11.1	10.4	9.0	6.6	8.4	9.9	11.3	11.7
SW	.9	4.9	3.7	.7	.0	.0		10.3	11.0	10.2	10.8	9.0	8.9	10.2	10.1	12.1	6.3
W	.8	2.8	1.4	.4	.0	.0		5.4	10.1	3.1	3.8	5.7	3.2	6.1	6.1	3.6	4.4
NW	.3	1.3	.6	.1	.0	.0		2.8	8.6	1.9	2.9	3.4	2.8	3.4	3.8	1.6	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	3.2	4.5	3.0	.7	4.2	2.7	2.2	.7
TOT OBS	1018	4082	3869	886	42	3	9902		11.6	1713	1300	1905	144	1689	1391	1613	147
TOT PCT	10.3	41.2	39.1	8.9	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	2.0	4.3	3.2	.4	.0		9.9	13.6	7.1	10.3	12.5	9.6	
NE	4.1	13.8	9.7	.9	.0		28.6	14.0	27.4	30.3	27.3	30.7	
E	4.2	9.4	4.0	.2	.0		17.8	11.3	19.8	17.2	16.4	17.1	
SE	3.5	6.4	1.6	.2	.0		11.7	10.2	12.9	10.4	11.4	11.9	
S	3.1	3.0	1.4	.2	.0		10.0	10.6	10.8	8.9	9.1	11.4	
SW	3.0	3.1	1.8	.3	.0		10.3	11.0	10.3	9.0	10.1	11.6	
W	2.1	2.3	.8	.2	.0		5.4	10.1	3.4	3.6	6.1	4.0	
NW	1.3	1.2	.3	.0	.0		2.8	8.6	2.3	3.4	3.6	1.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.6						3.6	.0	3.8	4.7	3.9	2.0	
TOT OBS	2679	4697	2273	236	13	9902		11.6	1013	2049	3080	1760	
TOT PCT	27.1	47.4	23.0	2.4	.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1853-1973

SEPTEMBER

AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.8	6.1	42.0	38.1	8.7	.2	.1	11.5	100.0	3013
0600Z	4.7	7.4	40.4	38.7	8.2	.6	.0	11.3	100.0	2049
1200Z	3.9	7.8	40.6	38.1	9.5	.5	.0	11.5	100.0	3080
1800Z	2.0	3.1	40.3	42.9	9.3	.4	.0	12.2	100.0	1780
TOT	394	464	4082	3869	886	42	5	11.6		9902
PCT	3.6	6.7	41.2	39.1	8.9	.4	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.3	2.3	2.2		3.9
NW	19.6	5.3	6.7	5.4		9.1
E	9.7	2.2	3.8	5.4		4.5
SE	2.2	1.5	2.8	3.7		5.2
S	2.1	1.2	2.3	3.9		5.4
SW	1.3	1.1	2.3	3.7		5.8
W	.9	.6	1.1	1.7		5.4
NW	.4	.1	.5	.7		5.3
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	.6		4.6
TOT OBS	789	301	483	591	2164	4.3
TOT PCT	34.5	13.9	22.3	27.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	130	300	400	1000	2000	3000	5000	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	OBS
N	.2	.0	.2	.7	.6	.3	.3	.1	.2	.1	6.9
NW	.7	.0	.3	1.6	2.3	1.4	.3	.2	.2	.4	28.8
E	.3	.0	.2	1.3	2.3	1.4	.2	.2	.2	.2	10.9
SE	.3	.0	.1	.6	1.2	1.4	.4	.2	.2	.2	9.4
S	.2	.1	.1	1.1	1.4	1.1	.6	.4	.1	.0	4.7
SW	.1	.1	.4	1.2	1.3	.9	.4	.3	.0	.1	3.5
W	.2	.0	.1	.6	.3	.2	.2	.1	.0	.1	2.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.1	.1	.2	.1	.0	.0	.0	1.3
TOT OBS	30	3	39	197	223	164	84	37	18	22	1389
TOT PCT	2.3	.2	1.6	7.3	10.3	7.6	3.0	1.7	.8	1.0	64.2
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	>0
>4000	1.1	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>3000	1.9	2.7	3.4	3.6	3.7	3.7	3.7	3.7	3.7
>2000	3.5	3.0	4.3	6.4	8.6	8.6	8.6	8.6	8.6
>1000	8.2	11.7	13.5	13.8	14.0	14.0	14.0	14.0	14.0
>400	13.4	21.2	23.9	23.9	24.1	24.1	24.2	24.2	24.2
>300	19.3	27.7	30.3	31.0	31.2	31.2	31.3	31.3	31.3
>200	20.1	28.8	31.8	32.6	32.6	32.8	32.9	32.9	32.9
>150	20.1	29.0	32.1	32.8	32.8	32.8	33.1	33.1	33.1
>0	20.3	29.4	33.9	33.1	33.4	33.4	33.4	33.4	33.4
TOTAL	444	648	743	768	774	774	774	774	777

TOTAL NUMBER OF OBS: 2189

PCT FREQ NM <5/8: 64.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL
										OBS
	24.9	13.5	10.6	8.4	7.3	4.5	3.8	7.1	10.3	2.1
										2328

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.9	
	TOT %	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.9	
1/2<1	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.9	
	TOT %	.0	.1	.1	.0	.1	.3	.0	.0	.0	.0	.9	
1<2	PCP	.0	.1	.0	.2	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	.1	.7	.2	.2	.3	.3	.1	.0	.0	.0	1.0	
	TOT %	.2	.8	.2	.4	.3	.3	.2	.0	.0	.0	2.9	
2<5	PCP	.1	.3	.0	.2	.1	.1	.2	.0	.0	.0	1.1	
	NO PCP	.7	1.7	1.2	.5	.6	.9	.0	.3	.0	.0	6.8	
	TOT %	.7	2.0	1.2	.8	.7	1.0	.8	.3	.0	.0	7.9	
5<10	PCP	.2	.1	.3	.3	.2	.6	.0	.0	.0	.0	2.1	
	NO PCP	2.6	7.9	3.9	2.1	2.4	2.7	1.6	.5	.0	.3	24.3	
	TOT %	2.8	8.0	4.2	2.5	2.6	3.3	1.6	.5	.0	.6	26.4	
10+	PCP	.1	.2	.1	.2	.2	.1	.0	.0	.0	.1	1.0	
	NO PCP	8.9	24.1	11.5	6.4	6.0	4.2	1.6	1.0	.0	.8	61.9	
	TOT %	9.0	24.3	11.6	6.6	6.1	4.2	1.7	1.0	.0	.8	62.9	
TOT OBS													2776
TOT PCT		9.8	33.2	17.6	10.3	9.9	9.1	4.4	1.9	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1	.5	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.6	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.5	
	4-10	.1	.3	.1	.2	.1	.2	.1	.1	.0	.0	1.2	
	11-21	.1	.4	.1	.1	.2	.1	.1	.0	.0	.0	1.0	
	22+	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.8	.2	.3	.4	.3	.2	.1	.0	.2	3.0	
2<5	0-3	.1	.1	.1	.1	.0	.1	.1	.0	.0	.5	1.0	
	4-10	.3	.7	.7	.3	.3	.3	.4	.2	.0	.0	3.5	
	11-21	.4	.9	.8	.4	.3	.4	.1	.1	.0	.0	3.3	
	22+	.0	.0	.1	.0	.1	.1	.2	.0	.0	.0	.9	
	TOT %	.8	1.9	1.6	1.0	.7	1.1	.8	.3	.0	.5	8.8	
5<10	0-3	.1	.1	.1	.1	.2	.1	.2	.1	.0	.8	1.9	
	4-10	.8	2.0	1.8	1.1	1.2	1.4	.7	.4	.0	.0	9.3	
	11-21	1.3	3.7	2.1	1.1	1.2	1.3	.8	.1	.0	.0	11.2	
	22+	.0	1.4	.3	.0	.2	.4	.1	.0	.0	.0	3.1	
	TOT %	2.8	7.2	4.4	2.4	2.7	3.1	1.8	.7	.0	.8	25.7	
10+	0-3	.2	.5	.5	.6	.4	.3	.3	.1	.0	1.6	4.4	
	4-10	1.7	6.1	3.8	4.3	3.0	2.2	1.2	.3	.0	.0	24.7	
	11-21	3.3	12.2	5.3	2.0	1.8	1.6	.7	.3	.0	.0	27.4	
	22+	.0	2.7	.8	.2	.4	.3	.2	.1	.0	.0	5.2	
	TOT %	6.0	21.5	12.4	7.1	5.5	4.4	2.3	1.0	.0	1.6	61.7	
TOT OBS													9245
TOT PCT		9.9	31.3	18.7	10.9	9.4	9.3	5.0	2.1	.0	3.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 41.3M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	3.7	.2	1.3	6.9	8.8	4.9	3.2	1.1	.4	.7	31.2	68.8	535
0600Z	2.9	.3	2.0	7.8	11.3	7.6	2.0	2.0	1.0	.8	38.1	61.9	591
1201Z	1.4	.3	1.6	7.5	11.3	9.6	3.1	2.3	1.0	1.0	39.2	60.8	574
1802Z	1.2	.0	1.2	5.3	5.4	8.5	3.2	1.5	.7	1.5	29.5	70.5	586
TOT	92	3	39	197	229	164	66	40	18	24	790	1496	2266
PCT	2.3	.2	1.3	6.1	10.0	7.2	2.9	1.7	.8	1.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000Z	.3	.6	2.8	9.9	25.0	60.8	1478
0600Z	.8	.3	2.9	8.8	24.7	62.2	1222
1201Z	.8	.8	3.7	6.7	26.6	59.4	1347
1802Z	.4	.3	3.4	7.9	24.7	63.1	1098
TOT	31	33	172	477	1362	3270	5943
PCT	.6	.6	3.2	8.9	25.3	61.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
0000Z	3.9	5.9	19.0	18.2	62.7	910
0600Z	3.0	5.9	22.3	21.8	59.9	564
1201Z	1.4	4.3	18.5	29.0	56.5	556
1802Z	1.3	2.9	16.6	19.7	63.7	539
TOT	92	103	419	465	1305	2189
PCT	2.4	4.7	19.1	21.2	59.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	2	.1
89/89	.0	.0	.0	.0	.1	.0	.0	.0	3	.1
80/84	.0	.0	.1	.0	.4	.3	.2	.1	23	1.2
75/79	.0	.0	.0	.4	.9	5.1	5.2	.9	259	12.6
70/74	.0	.0	.1	.9	5.8	12.1	25.0	18.3	1212	60.3
65/69	.0	.0	.0	1.1	2.9	4.2	8.6	7.0	479	23.9
60/64	.0	.0	.0	.2	.0	.1	.3	.6	28	1.4
TOTAL	0	3	7	34	167	441	788	543	2002	100.0
PCT	.0	.1	.3	2.7	8.3	22.0	39.4	27.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/89	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
80/84	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0
75/79	2.8	5.3	1.4	.6	.9	.7	.1	.4	.0	.2
70/74	9.9	25.1	10.9	4.9	5.4	4.2	2.1	.9	.0	1.1
65/69	.9	4.0	4.9	4.4	3.7	3.3	1.3	.2	.0	.8
60/64	.1	.0	.2	.3	.4	.4	.0	.0	.0	.0
TOTAL	10.0	35.5	17.5	10.1	10.5	8.9	3.7	1.6	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	77	75	70	69	63	54	70.2	3004
0600Z	83	76	74	70	69	62	59	69.7	2041
1201Z	88	81	77	72	66	60	60	71.9	3019
1802Z	92	82	79	73	67	64	56	72.7	1720
TOT	92	80	77	71	68	63	54	71.1	9784

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	1.7	5.8	18.3	39.6	34.6	84	518
0600Z	.0	1.9	4.7	19.3	38.1	40.0	85	515
1201Z	.0	4.2	16.3	22.6	42.8	19.9	81	523
1802Z	.0	4.5	19.0	32.2	36.6	14.7	79	484
TOT	0	83	167	449	802	560	82	2040

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1859-1973

AREA 0009 RIO DE JANEIRO
22.75 41.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	63 66	69 72	73 76	77 80	81 84	83 86	89 92	TOT	M FOF	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
16/18	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.2	.0	.0	10	.0	.4
9/10	.0	.0	.0	.1	.3	.1	.2	.0	.0	18	.0	.8
7/8	.0	.0	.0	.4	.7	.4	.2	.1	.0	40	.0	1.7
6	.0	.0	.0	.3	.9	.3	.0	.0	.0	34	.0	1.5
5	.0	.0	.0	.8	1.6	.7	.0	.0	.0	70	.1	3.0
4	.0	.0	.2	1.5	2.2	.8	.0	.0	.0	106	.1	4.6
3	.0	.0	.4	3.1	2.8	.7	.0	.0	.0	157	.1	6.9
2	.0	.0	.8	5.8	2.9	.5	.0	.0	.0	223	.4	9.6
1	.0	.0	1.1	7.8	3.4	.3	.0	.0	.0	327	.2	14.4
0	.0	.0	2.2	9.2	4.9	.0	.0	.0	.0	368	.2	15.7
-1	.0	.2	2.1	6.7	2.8	.1	.0	.0	.0	266	.3	11.6
-2	.0	.2	2.4	5.3	1.7	.0	.0	.0	.0	218	.1	9.5
-3	.0	.3	2.2	3.2	.6	.0	.0	.0	.0	141	.1	6.2
-4	.0	.3	1.6	2.2	.5	.1	.0	.0	.0	103	.1	4.6
-5	.0	.3	1.2	1.4	.3	.0	.0	.0	.0	72	.0	3.2
-6	.0	.1	.8	.4	.0	.0	.0	.0	.0	32	.0	1.4
-7/-8	.0	.1	.8	.4	.0	.0	.0	.0	.0	29	.0	1.3
-9/-10	.0	.2	.4	.2	.0	.0	.0	.0	.0	19	.0	.8
-11/-12	.0	.0	.1	.0	.0	.0	.0	.0	.0	5	.0	.2
TOTAL	1	41	369	1097	615	96	13	5	2	2241	2.4	2187
PCT	.0	1.0	16.5	49.0	27.4	4.3	.7	.2	.1	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HE	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.2	.0	.0	.0	.0	.4	41	.1	1.4	.0	.0	.0	.0	1.5
1-3	.1	1.0	.4	.0	.0	.0	1.4	1-3	.1	3.0	2.8	.0	.0	.0	5.9
3-4	.0	.0	1.3	.0	.0	.0	2.2	3-4	.0	3.8	7.7	.7	.0	.0	12.0
5-6	.0	.1	1.3	.4	.0	.0	1.7	5-6	.0	.4	6.2	1.0	.0	.0	7.6
7	.0	.0	.7	.7	.0	.0	1.5	7	.0	.2	3.2	2.8	.0	.0	6.2
8-9	.1	.0	.2	.5	.2	.0	1.0	8-9	.0	.0	1.0	3.4	.2	.0	4.6
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.1	.0	.1	.0	.0	.2
12	.0	.0	.0	.0	.1	.0	.1	12	.0	.0	.1	.1	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.2	.3	.1	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.1	.8	.0	.0	.1	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	4.0	1.6	.3	.0	8.4	TOT PCT	.3	8.6	71.2	8.3	.3	.0	38.7

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.4	.1	.0	.0	.0	.6	41	.0	.5	.0	.0	.0	.0	.6
1-3	.3	4.0	1.0	.0	.0	.0	5.3	1-3	.7	3.3	.4	.0	.0	.0	4.6
3-4	.0	1.6	3.7	.1	.0	.0	5.5	3-4	.0	.9	.9	.0	.0	.0	1.8
5-6	.0	.8	2.5	.4	.0	.0	3.6	5-6	.0	.7	.9	.0	.0	.0	1.6
7	.1	.1	.8	.4	.0	.0	1.6	7	.0	.2	.4	.1	.0	.0	.7
8-9	.0	.0	.1	.0	.0	.0	.1	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.9	6.3	1.2	.0	.0	16.8	TOT PCT	.7	5.9	2.6	.1	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	.2	.2	.0	.0	.0	.0	.5
1-2	.1	2.6	1.4	.0	.0	.0	4.1	.2	2.2	.7	.0	.0	.0	2.9
3-4	.0	1.3	.8	.0	.0	.0	2.2	.0	1.4	1.9	.1	.0	.0	3.5
5-6	.0	.1	.8	.0	.0	.0	.9	.0	.1	1.3	.2	.0	.0	1.4
7	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.2	.0	.0	.4
8-9	.0	.1	.2	.1	.0	.0	.3	.0	.0	.2	.5	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	3.3	.6	.0	.0	8.7	.2	3.9	4.2	1.2	.1	.0	9.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1	
1-2	.1	1.3	.8	.0	.0	.0	2.0	.0	.3	.1	.0	.0	.0	.3	
3-4	.0	.5	.9	.3	.0	.0	1.7	.0	.5	.0	.0	.0	.0	.3	
5-6	.0	.1	.1	.2	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.2	.3	.0	.0	.6	.0	.2	.2	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.3	1.8	1.0	.0	.0	5.3	.0	1.1	.5	.1	.0	.0	1.7	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	2.3	3.6	.1	.0	.0	.0	6.0	
1-2	1.9	17.9	7.2	.0	.0	.0	27.0	
3-4	.0	10.7	17.1	1.3	.0	.0	29.2	
5-6	.0	2.2	13.1	1.9	.0	.0	17.2	
7	.1	.7	9.8	3.4	.0	.0	12.0	
8-9	.1	.1	1.9	4.6	.4	.0	7.0	
10-11	.0	.1	.1	.3	.1	.0	.6	
12	.0	.0	.1	.2	.1	.0	.4	
13-16	.0	.0	.2	.4	.1	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	33.2	43.7	14.1	.7	.0	100.0	1033

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.1	8.6	12.6	8.4	3.1	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	649	4
6-7	.1	.9	10.7	11.3	3.6	2.3	.4	.4	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	596	3
8-9	.0	.1	1.2	4.1	3.1	2.8	.7	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	7
10-11	.0	.1	.3	.9	.7	1.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	7
12-13	.0	.0	.1	.1	.4	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	8
15-17	.0	.0	.0	.1	.6	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	15	8
18-20	2.6	1.7	3.3	1.6	1.8	.6	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	4
TOTAL	70	212	320	480	317	160	41	20	20	1	1	1	0	0	0	0	0	0	0	1843	3
PCT	3.8	11.5	26.2	26.0	17.2	8.7	2.2	1.1	1.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	1.3	1.6	1.3	.0	.0	.0	.0	4.2	2.7	1.7	4.8	.4	4.3	.0	82.1
NE	1.3	.8	1.0	.0	.0	.0	.0	2.8	1.3	.9	2.4	.0	4.9	.1	87.8
E	2.6	2.0	3.3	.0	.0	.0	.0	7.5	4.3	.7	1.0	.0	3.0	.1	83.3
SE	4.0	2.6	4.3	.0	.0	.0	.0	10.8	2.7	.7	2.3	.3	1.4	.3	81.6
S	3.7	1.7	2.4	.0	.0	.0	.0	9.3	3.5	.9	2.8	.0	1.8	.0	81.6
SW	3.1	3.1	2.4	.0	.0	.0	.0	8.3	4.2	1.3	6.3	.0	4.9	.0	74.6
W	6.9	2.3	4.1	.0	.0	.0	.0	13.3	4.3	6.2	3.3	.9	3.7	.0	67.0
NW	6.5	1.8	3.4	.0	.0	.0	.0	13.4	2.3	6.1	8.8	.0	.4	.0	69.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.7	1.7	.0	.0	.0	.0	3.4	5.2	3.2	13.8	.0	8.6	.0	63.8
TOT PCT OBS:	2.9	1.7	2.4	.0	.0	.0	.0	6.8	2.9	1.4	3.3	.1	3.6	.1	82.0
	2873														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000Z	3.0	2.4	2.6	.0	.0	.0	.0	7.9	2.5	2.9	2.5	.0	4.1	.3	80.1
0600Z	3.7	1.7	2.8	.0	.0	.0	.0	7.6	4.3	2.3	3.7	.3	2.0	.0	80.0
1200Z	2.8	1.8	2.6	.0	.0	.0	.0	6.9	2.5	.3	3.3	.4	4.9	.0	81.7
1800Z	2.3	1.5	2.1	.0	.0	.0	.0	5.6	1.9	.0	3.3	.0	3.4	.1	83.3
TOT PCT TOT OBS:	3.0 2944	1.8	2.5	.0	.0	.0	.0	7.0	2.9	1.4	3.3	.2	3.6	.1	81.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	3.0	3.8	1.0	.2	.0		8.9	12.9	6.1	4.3	5.5	8.9	9.7	11.5	8.4	12.9	
NE	.9	8.8	13.1	3.0	.2	.0		26.0	13.8	23.5	24.5	27.7	30.7	27.1	24.8	27.9	24.8	
E	1.2	9.3	8.8	1.0	.1	.0		20.1	11.1	22.8	22.7	19.6	10.1	18.6	17.3	19.1	23.0	
SE	1.4	7.5	4.5	.7	.1	.0		14.2	10.3	17.3	15.3	13.6	14.0	12.1	12.7	15.3	11.0	
S	1.2	5.9	3.9	.6	.0	.0		11.2	10.2	13.2	10.5	9.8	5.9	11.2	11.1	12.0	10.7	
SW	.8	4.5	3.6	.8	.1	.0		9.9	11.4	9.5	8.7	9.9	9.6	10.0	10.6	10.6	9.4	
W	.7	2.4	1.1	.3	.0	.0		4.3	9.6	3.4	3.0	3.2	3.7	3.1	3.7	2.6	3.1	
NW	.4	1.3	.7	.1	.0	.0		2.5	9.0	1.7	2.8	2.8	2.8	3.0	2.9	2.0	2.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	2.9	4.0	3.8	2.4	3.0	3.5	1.8	2.9	
TOT OBS	1062	4408	4071	789	53	1	10380		11.2	1847	1383	1934	127	1739	1323	1443	134	
TOT PCT	10.2	42.5	39.2	7.6	.5	.0		100.0		100.0	130.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	12	18
N	1.8	3.9	2.5	.2	.0			8.5	12.9	6.2	8.5	10.5	8.8	
NE	4.0	13.4	7.8	.8	.0			26.0	13.8	24.0	27.9	26.0	27.7	
E	4.9	11.3	3.6	.2	.0			20.1	11.1	22.8	19.7	18.0	19.4	
SE	4.3	7.3	2.2	.1	.0			14.2	10.3	16.5	12.7	12.4	13.1	
S	2.8	3.6	1.6	.1	.0			11.2	10.2	13.0	9.6	11.1	11.9	
SW	2.8	4.0	1.9	.3	.0			9.9	11.4	9.2	9.9	10.3	10.6	
W	1.8	2.0	.6	.1	.0			4.3	9.6	4.1	3.2	3.4	2.7	
NW	1.1	1.1	.3	.0	.0			2.5	9.0	2.1	2.8	3.0	2.1	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	3.2	3.8	3.2	1.9	
TOT OBS	2879	5151	2138	206	6	10380			11.2	1232	2083	3246	1801	
TOT PCT	27.7	49.6	20.6	2.0	.1			100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973AREA 0009 RIO DE JANEIRO
22.73 41.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.2	6.8	42.8	39.2	7.6	.5	.0	11.2	100.0	3232
0600Z	3.8	6.7	42.3	39.7	7.7	.5	.0	11.2	100.0	2083
1200Z	3.2	6.3	41.9	37.9	7.9	.5	.0	11.1	100.0	3264
1800Z	1.9	3.8	43.2	41.9	6.8	.5	.0	11.6	100.0	1801
TOT	322	740	4408	4771	783	53	1	11.2		10380
PCT	3.1	7.1	42.5	39.2	7.6	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	PCT FREQ CLOUD OVER
N	2.2	1.1	2.0	2.4		4.8
NE	12.6	4.9	9.0	8.0		4.0
E	5.6	2.8	5.7	5.5		4.6
SE	2.5	1.6	4.2	3.0		5.6
S	1.8	1.2	3.4	3.9		5.7
SW	1.5	.9	2.4	4.6		5.9
W	.4	.4	1.0	1.3		5.8
NW	.3	.3	.7	.7		5.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.2	.8		4.5
TOT OBS	571	274	589	422	2056	4.9
TOT PCT	27.8	13.3	28.6	20.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.3	.0	.1	.6	1.0	.7	.4	.0	.	.	4.5	
NE	.4	.1	.2	1.4	3.0	2.4	1.0	.5	.2	.3	29.0	
E	.4	.2	.4	2.1	2.7	1.3	.7	.2	.1	.2	11.3	
SE	.4	.0	.2	1.4	2.6	1.6	.8	.3	.	.1	5.8	
S	.2	.	.1	1.2	1.6	1.3	.6	.1	.1	.2	4.9	
SW	.3	.	.2	1.0	1.8	.7	.4	.0	.	.1	4.0	
W	.2	.	.2	.2	.4	.3	.9	.1	.	.	1.3	
NW	.1	.0	.1	.3	.1	.1	.1	.2	.	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.	.2	.	.3	.1	.0	.0	.0	1.2	
TOT OBS	30	8	34	172	270	187	101	37	12	10	1165	
TOT PCT	2.4	.4	1.7	8.4	13.1	9.1	4.9	1.8	.6	1.0	56.7	2086

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>3000	1.2	1.3	1.6	1.6	1.7	1.7	1.7	1.7
>2000	1.9	2.7	3.4	3.5	3.6	3.6	3.6	3.6
>1500	4.6	6.7	7.7	7.9	8.1	8.1	8.1	8.1
>1000	10.5	14.8	16.6	16.9	17.1	17.1	17.1	17.1
>500	18.4	26.4	29.5	29.9	30.2	30.2	30.3	30.3
>300	23.3	34.3	38.0	38.4	38.7	38.7	38.8	38.8
>150	24.2	35.6	39.3	40.1	40.4	40.4	40.5	40.5
>0	24.3	35.8	39.9	40.3	40.8	40.8	40.8	40.8
TOTAL	310	758	860	881	888	891	896	898

TOTAL NUMBER OF OBS: 2074

PCT FREQ NM <3/8: 56.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
16.6	11.9	11.3	8.5	7.0	6.6	6.6	9.6	19.9	1.8	2271

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1957-1973

OCTOBER

AREA 0009 RIO DE JANEIRO
22.73 41.64

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.1	.1	.0	.1	.1	.0	.2	.0	.0	.1	.5	
	TOT S	.1	.1	.1	.1	.1	.0	.1	.0	.0	.1	.7	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.1	.0	.1	.2	.1	.1	.0	.1	.7	
	TOT S	.0	.1	.1	.0	.1	.2	.2	.1	.0	.1	.9	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.3	.1	.2	.0	.2	.0	.0	.0	.0	.9	
	TOT S	.1	.4	.2	.2	.1	.2	.1	.0	.0	.0	1.3	
2<5	PCP	.0	.2	.3	.3	.1	.3	.1	.1	.0	.0	1.3	
	NO PCP	.4	1.3	.8	.8	.6	.8	.9	.1	.0	.1	5.3	
	TOT S	.3	1.7	1.1	1.1	.7	1.0	.9	.2	.0	.1	6.6	
5<10	PCP	.2	.5	.7	.7	.4	.5	.5	.1	.0	.0	3.5	
	NO PCP	2.2	7.3	4.7	3.2	3.3	3.7	1.9	1.0	.0	.4	27.7	
	TOT S	2.4	8.0	5.4	3.8	3.7	4.2	1.8	1.1	.0	.7	31.2	
10+	PCP	.1	.1	.3	.3	.3	.0	.1	.0	.0	.0	1.2	
	NO PCP	4.7	19.7	12.6	7.7	8.0	4.4	1.3	.7	.0	1.0	58.1	
	TOT S	4.8	19.8	12.9	8.0	8.3	4.4	1.3	.8	.0	1.0	59.3	
TOT OBS													2868
TOT PCT		7.9	30.1	19.8	13.2	10.9	10.1	3.8	2.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.0	.1	.1	.0	.1	.0	.0	.1	.5	
1/2<1	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.1	.1	.0	.0	.1	.1	.1	.0	.1	.6	
1<2	0-9	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.4	
	4-10	.0	.1	.2	.1	.1	.1	.0	.0	.0	.0	.8	
	11-21	.0	.2	.0	.1	.1	.1	.1	.0	.0	.0	.9	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.1	.4	.3	.3	.3	.3	.1	.0	.0	.1	1.9	
2<5	0-9	.0	.1	.0	.2	.1	.0	.1	.0	.0	.1	.7	
	4-10	.2	.5	.6	.6	.4	.3	.2	.2	.0	.0	3.0	
	11-21	.2	.8	.5	.4	.4	.4	.1	.0	.0	.0	2.9	
	22+	.1	.2	.1	.1	.0	.1	.1	.0	.0	.0	.6	
	TOT S	.5	1.6	1.2	1.4	.9	.9	.4	.3	.0	.1	7.2	
5<10	0-9	.1	.2	.3	.2	.2	.3	.2	.1	.0	.0	2.3	
	4-10	1.0	2.3	2.6	1.9	1.6	1.5	.9	.4	.0	.0	12.4	
	11-21	1.1	3.3	2.2	1.3	1.3	1.0	.3	.4	.0	.0	11.1	
	22+	.2	1.2	.4	.2	.2	.3	.1	.1	.0	.0	2.5	
	TOT S	2.4	7.4	5.5	3.7	3.4	3.0	1.4	.9	.0	.0	28.2	
10+	0-9	.3	.4	.7	.6	.4	.3	.1	.1	.0	1.4	4.4	
	4-10	1.7	3.4	6.3	4.9	3.3	2.4	1.1	.6	.0	.0	26.7	
	11-21	2.3	10.3	6.8	2.5	2.5	1.7	.8	.2	.0	.0	26.9	
	22+	.5	2.0	.4	.2	.1	.2	.1	.0	.0	.0	3.5	
	TOT S	4.8	19.0	14.2	8.3	6.3	4.6	1.9	1.0	.0	1.4	61.5	
TOT OBS													5273
TOT PCT		7.8	28.6	21.3	13.7	11.0	8.9	4.0	2.2	.0	2.4	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1979
(OVER-ALL) 1957-1979

TABLE 10

AREA 0009 RIO DE JANEIRO
22.75 41.6M

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
0000	3.4	.4	1.3	9.9	11.8	8.0	4.6	1.0	.8	.8	42.0	58.0	524
0600	3.4	.8	1.9	8.7	15.8	7.3	4.3	1.3	.6	1.1	49.4	54.6	531
1200	1.3	.0	1.3	8.9	13.8	10.2	5.1	2.4	.5	1.1	44.8	55.2	549
1800	1.2	.4	1.8	5.8	9.6	9.1	4.6	2.3	.7	.9	36.4	63.6	571
TOT	91	8	34	180	277	190	101	39	14	21	915	1280	2179
PCT	2.3	.4	1.5	8.3	12.7	5.7	4.6	1.8	.6	1.0	42.1	57.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.7	.6	1.8	7.8	28.5	60.7	1983
0600	.7	.9	2.0	8.1	30.1	58.1	1174
1200	.5	.7	1.8	6.5	27.8	62.8	1923
1800	.4	.7	2.2	6.7	27.2	62.9	1069
TOT	30	37	103	389	1518	3272	8340
PCT	.6	.7	1.9	7.3	28.4	61.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING NOT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	3.5	5.3	21.2	23.5	53.2	509
0600	3.5	7.3	22.3	23.7	51.0	510
1200	1.3	2.9	18.0	29.9	52.1	522
1800	1.3	3.9	13.7	24.5	59.6	525
TOT	30	102	405	548	1123	2076
PCT	2.4	4.9	19.5	26.4	54.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	4	.2
85/89	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
80/84	.0	.0	.0	.0	.4	1.1	.7	.1	30	2.3
75/79	.0	.0	.0	.7	.6	4.3	8.5	5.0	386	19.2
70/74	.0	.0	.0	.8	4.0	7.9	22.1	22.7	1159	57.6
65/69	.0	.0	.0	.1	1.9	3.2	7.4	7.2	398	19.8
60/64	.0	.0	.0	.0	.0	.0	.0	.5	13	.6
TOTAL	0	0	3	36	141	337	781	715	2013	100.0
PCT	.0	.0	.1	1.8	7.0	16.7	38.8	35.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	78	74	71	66	64	59	71.0	3222
0600	84	77	73	70	65	63	58	70.3	2076
1200	93	82	79	75	67	64	61	72.9	3175
1800	94	83	80	74	66	64	59	73.8	1740
TOT	94	81	78	72	66	64	55	71.9	10213

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.7	6.4	13.3	24.2	44.9	86	364		
0600	.0	.0	4.7	12.4	33.4	44.3	87	483		
1200	.0	2.4	6.9	17.4	41.3	31.9	84	352		
1800	.0	4.8	10.0	23.8	40.1	21.3	81	461		
TOT	0	39	143	341	793	744	84	2062		

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PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1957-1973AREA 0009 RIO DE JANEIRO
22.75 41.6W

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FOG	MO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.0	12	.0	.5
8/10	.0	.0	.0	.1	.1	.2	.1	.0	.0	14	.0	.6
7/8	.0	.0	.0	.3	.6	.6	.3	.0	.0	39	.0	1.7
6	.0	.0	.0	.2	.8	.8	.3	.0	.0	48	.0	2.1
5	.0	.0	.0	.5	1.8	1.2	.2	.0	.0	88	.2	3.6
4	.0	.0	.1	1.4	2.0	1.9	.2	.0	.0	122	.1	5.1
3	.0	.0	.3	2.1	3.1	1.2	.1	.0	.0	155	.7	6.5
2	.0	.0	.4	3.9	5.9	.6	.0	.0	.0	259	.3	10.7
1	.0	.0	.9	4.9	6.1	.8	.0	.0	.0	294	.4	12.2
0	.0	.1	1.5	7.3	6.3	.5	.0	.0	.0	368	.6	15.3
-1	.0	.0	1.6	5.6	3.8	.9	.0	.0	.0	266	.7	11.1
-2	.0	.1	2.0	5.3	2.3	.1	.0	.0	.0	233	.7	9.7
-3	.0	.1	1.4	4.3	.9	.0	.0	.0	.0	154	.2	6.5
-4	.0	.1	1.6	2.6	.5	.0	.0	.0	.0	114	.1	4.8
-5	.0	.1	1.2	1.3	.3	.0	.0	.0	.0	71	.1	3.0
-6	.0	.1	.7	.9	.1	.0	.0	.0	.0	46	.0	2.0
-7/-8	.0	.1	.4	.4	.1	.0	.0	.0	.0	24	.0	1.0
-9/-10	.0	.0	.3	.1	.0	.0	.0	.0	.0	9	.0	.4
-11/-13	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	25	295	968	812	186	1	1	1	2325	69	2260
PCT	.1	1.1	12.7	41.6	34.9	9.0	1.5	.0	.0	100.0	2.9	97.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT PRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.1	.0	.0	.0	.4	41	.1	1.0	.0	.0	.0	.0	1.1
1-2	.0	1.2	.0	.0	.0	.0	2.0	1-2	.2	3.6	2.4	.0	.0	.0	6.2
3-4	.0	.5	1.5	.1	.0	.0	2.1	3-4	.1	2.1	6.7	.8	.0	.0	9.7
5-6	.0	.2	1.2	.3	.0	.0	1.7	5-6	.1	.4	5.6	1.2	.0	.0	7.0
7	.0	.0	.4	.3	.1	.0	1.0	7	.0	.3	2.4	1.5	.1	.0	4.3
8-9	.0	.0	.1	.2	.0	.0	.2	8-9	.0	.1	1.1	1.2	.1	.0	2.5
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.1	.4	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	26-28	.0	.0	.0	.0	.0	.0	.0
29-40	.0	.0	.0	.0	.0	.0	.0	29-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.0	1.1	.1	.0	7.4	TOT PCT	.3	7.4	18.1	3.2	.2	.0	31.7

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.9	.0	.0	.0	.0	1.0	41	.7	.3	.1	.0	.0	.0	1.1
1-2	.7	5.7	1.3	.0	.0	.0	7.8	1-2	.6	3.1	.6	.0	.0	.0	4.3
3-4	.0	1.9	5.2	.2	.0	.0	7.3	3-4	.1	2.5	1.2	.2	.0	.0	4.0
5-6	.0	.7	3.7	.3	.0	.0	4.7	5-6	.0	.7	1.3	.0	.0	.0	2.0
7	.0	.0	1.2	.3	.0	.0	1.5	7	.0	.2	.4	.2	.0	.0	.8
8-9	.0	.0	.6	.1	.0	.0	.7	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.1	.1	.0	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	26-28	.0	.0	.0	.0	.0	.0	.0
29-40	.0	.0	.0	.0	.0	.0	.0	29-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.3	12.0	.9	.0	.0	23.1	TOT PCT	1.4	6.8	1.9	.4	.0	.0	12.5

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

ARPA 0009 RIO DE JANEIRO
22.75 41.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.4	
1-2	.3	1.3	1.0	.0	.0	.0	2.6	.0	2.7	1.0	.0	.0	.0	3.7	
3-4	.0	1.3	2.0	.0	.0	.0	3.3	.0	1.1	1.6	.0	.0	.0	2.7	
5-6	.0	.8	1.4	.1	.0	.0	2.0	.0	.2	1.0	.3	.0	.0	1.6	
7	.0	.0	.3	.0	.0	.0	.3	.0	.1	.4	.3	.0	.0	.8	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	3.6	4.7	.2	.0	.0	8.9	.0	4.9	4.1	.8	.0	.0	9.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.2	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	1.1	.2	.0	.0	.0	1.3	.0	.2	.2	.0	.0	.0	.4	
3-4	.0	.2	.3	.2	.0	.0	.8	.0	.1	.4	.1	.0	.0	.6	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.3	
7	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	1.5	.7	.4	.0	.0	2.9	.0	.9	.9	.2	.0	.0	2.0	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	3.9	.2	.0	.0	.0	7.8	
1-2	2.3	18.9	7.4	.0	.0	.0	28.6	
3-4	.2	9.7	18.7	1.6	.0	.0	30.3	
5-6	.2	2.6	14.0	2.4	.0	.0	19.2	
7	.0	.6	3.1	2.9	.2	.0	6.8	
8-9	.0	.1	2.1	1.3	.1	.0	3.8	
10-11	.0	.1	.3	.4	.0	.0	.8	
12	.0	.1	.1	.1	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	36.1	47.9	9.2	.3	.0	100.0	993

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	12.1	13.3	6.1	2.4	.9	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	716	3
6-7	.1	1.8	9.6	12.1	3.4	2.6	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	620	3
8-9	.0	.3	1.9	3.0	4.4	2.3	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	249	6
10-11	.0	.2	.6	1.1	.9	1.0	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	7
12-13	.0	.0	.4	.1	.2	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
>13	.0	.0	.0	.2	.2	.1	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDET	2.1	1.3	2.1	1.1	1.3	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	4
TOTAL	82	298	526	446	283	142	89	31	13	3	0	0	0	0	0	0	0	0	0	1882	5
PCT	4.4	15.7	27.9	23.7	15.0	7.5	3.1	1.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	NO
	SMW.	PCPN	PCPN	PCPN	FRZM		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
					PCPN					PAST HR			DUST	WEA
N	2.4	.0	1.1	.0	.0	.0	3.1	5.2	1.3	2.7	.0	2.8	.0	84.8
NE	3.9	.6	2.6	.0	.0	.0	7.1	2.1	1.3	1.3	.0	3.3	.0	84.7
E	4.1	1.0	1.9	.0	.0	.0	7.8	2.0	.9	1.9	.0	2.1	.0	85.4
SE	6.6	.9	2.4	.0	.0	.0	9.7	3.3	.7	1.6	.0	1.6	.0	83.4
S	4.3	1.7	2.8	.0	.0	.0	6.2	4.9	.9	.2	.2	.9	.2	84.4
SW	5.0	2.7	3.2	.0	.0	.0	10.8	3.1	2.1	1.1	.3	2.9	.1	79.3
W	7.7	3.1	4.6	.0	.0	.0	13.3	1.8	4.1	6.9	1.0	4.1	.0	66.8
NW	6.3	1.6	.4	.0	.0	.0	8.3	11.1	3.3	3.1	.0	2.0	.0	68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.0	1.6	.0	.0	.0	1.6	3.2	1.6	7.9	.0	4.8	.0	81.0
TOT PCT	4.6	1.3	2.4	.0	.0	.0	8.0	3.2	1.4	1.9	.1	2.3	.	83.0
TOT OBS	2697													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY	NO
	SMW.	PCPN	PCPN	PCPN	FRZM		OB TIME	HOURL	LTNG	WD	PCPN	HAZE	BLWG	SIG
					PCPN					PAST HR			DUST	WEA
0000	5.8	1.4	2.2	.0	.0	.1	9.2	3.3	2.9	1.4	.1	2.3	.0	81.0
0000	4.6	1.1	2.9	.0	.0	.0	8.3	4.2	2.9	2.7	.0	2.4	.0	79.7
1200	4.3	1.1	2.1	.0	.0	.0	7.1	2.2	.0	1.8	.3	2.1	.1	86.4
1800	1.1	1.3	2.4	.0	.0	.0	7.9	2.9	.3	1.3	.0	2.9	.0	84.3
TOT PCT	4.7	1.3	2.4	.0	.0	.0	8.1	3.1	1.3	1.9	.1	2.4	.	83.0
TOT OBS	2734													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	OBS				00	03	06	09	12	15	18
										SPD							
N	.9	3.0	4.4	1.2	.1	.0	9.2	13.4	4.6	7.8	9.1	13.0	10.7	12.1	8.4	9.2	
NE	1.0	9.3	12.7	2.9	.1	.0	26.0	13.1	23.8	24.3	26.3	28.1	28.6	23.8	26.8	24.0	
E	1.2	10.0	7.1	.9	.1	.0	19.3	10.8	21.3	22.8	20.4	13.0	17.3	13.7	19.1	13.1	
SE	1.4	8.4	4.9	.6	.0	.0	13.3	9.8	19.0	16.7	12.9	14.4	11.8	14.4	15.1	16.3	
S	1.4	8.8	3.7	.8	.0	.0	11.7	10.3	13.2	10.1	9.6	11.9	10.2	12.6	14.3	17.3	
SW	1.8	4.3	2.8	.9	.1	.0	8.8	11.1	8.1	8.0	8.0	7.3	10.0	9.4	9.7	6.9	
W	.6	2.1	.9	.1	.0	.0	3.7	9.1	3.0	3.7	4.3	3.8	4.7	3.9	2.3	6.7	
NW	.3	1.3	.7	.1	.0	.0	2.3	9.9	1.6	2.9	2.8	3.8	2.6	2.9	1.7	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.4	3.6	3.3	.8	4.0	3.2	1.6	.8	
TOT OBS	1080	4444	3736	751	55	3	10869	11.0	1777	1320	1901	120	1694	1241	1388	130	
TOT PCT	10.7	44.1	37.1	7.3	.5	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	7-16	17-27	28-40	41+		OBS				00	03	06	09	12	15	18
										SPD							
N	1.8	4.3	2.7	.4	.0		9.2	13.4	7.1	9.4	11.4	8.4					
NE	4.4	13.4	7.4	.7	.0		26.0	13.1	24.0	27.3	26.7						
E	3.1	11.0	2.8	.2	.1		19.3	10.8	22.0	20.0	16.6	12.7					
SE	3.0	8.1	1.9	.1	.0		13.3	9.8	18.0	14.0	13.0	16.2					
S	4.0	9.6	1.8	.2	.0		11.7	10.3	11.9	9.8	11.3	14.6					
SW	2.8	4.2	1.4	.3	.0		8.8	11.1	8.1	8.0	9.7	9.3					
W	1.7	1.6	.4	.1	.0		3.7	9.1	3.3	4.3	4.3	2.7					
NW	.9	1.1	.4	.1	.0		2.3	9.9	2.2	2.9	2.6	1.7					
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0					
CALM	3.3						3.3	.0	3.3	3.6	3.3	1.3					
TOT OBS	2937	3002	1694	218	16		10069		1097	2021	3235	1716					
TOT PCT	29.2	49.7	16.8	2.2	.2		100.0		100.0	100.0	100.0	100.0					

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1955-1973

AREA 0009 RIO DE JANEIRO
22.75 41.4M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.5	6.8	45.7	36.0	7.6	.6			11.0	100.0	3097
0600Z	5.0	8.0	44.1	39.8	6.5	.6			10.6	100.0	2021
1200Z	3.6	7.9	44.5	39.5	8.0	.5			10.9	100.0	3235
1800Z	1.5	6.5	40.7	43.5	7.3	.3			11.6	100.0	1716
TOT	392	728	4444	3736	731	55			11.0		10069
PCT	3.5	7.2	44.1	37.1	7.5	.5				100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	1.1	2.1	2.9		4.9
NE	7.7	4.6	6.9	5.8		4.4
E	5.2	3.0	7.0	5.7		5.0
SE	3.0	2.0	3.4	5.0		3.4
S	2.5	2.2	3.8	4.1		3.2
SW	1.5	1.8	3.7	2.9		3.3
W	.7	.6	.8	1.4		3.4
NW	.2	.1	.7	1.0		6.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.6	.6		4.2
TOT OBS	466	322	593	364	1943	5.0
TOT PCT	24.0	16.6	30.5	29.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.1	.7	.8	.5	.4	.1	.2	.1	9.4	
NE	.0	.1	.3	1.8	1.9	1.7	.8	.3	.2	.6	16.9	
E	.2	.0	.2	1.7	2.5	2.5	1.0	.3	.1	.3	12.1	
SE	.2	.0	.2	1.6	2.4	1.5	1.0	.2	.2	.0	9.0	
S	.1	.0	.4	1.5	2.5	1.0	.4	.1	.1	.1	6.4	
SW	.1	.0	.1	1.0	1.8	.8	.5	.1	.0	.1	4.9	
W	.1	.1	.2	.3	.7	.3	.9	.0	.0	.1	1.7	
NW	.1	.0	.1	.3	.3	.3	.2	.0	.0	.0	.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.5	.1	.1	.1	.1	.0	1.4	
TOT OBS	19	4	30	177	261	168	89	21	16	21	1139	1943
TOT PCT	1.0	.2	1.5	9.1	13.4	8.6	4.4	1.1	.8	1.1	58.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>OR >4500	1.4	1.8	1.9	1.9	1.9	1.9	1.9	1.9
>OR >3000	2.1	2.9	2.9	3.0	3.0	3.0	3.0	3.0
>OR >2500	4.3	6.4	7.1	7.3	7.6	7.6	7.3	7.6
>OR >2000	10.4	14.6	15.7	16.2	16.3	16.3	16.3	16.3
>OR >1000	19.2	27.0	29.2	29.7	29.8	29.9	29.9	29.9
>OR >600	24.7	33.3	36.0	36.7	36.8	36.9	36.0	36.7
>OR >300	28.2	36.3	39.3	40.3	40.4	40.5	40.6	40.6
>OR >150	28.3	36.4	39.7	40.3	40.6	40.7	40.8	40.8
>OR >0	28.5	37.0	40.6	41.4	41.6	41.7	41.9	41.9
TOTAL	503	733	803	820	823	826	830	830

TOTAL NUMBER OF OBS: 1982

PCT FREQ NM <5/8: 58.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	12.5	13.0	13.3	11.0	7.4	6.3	7.6	7.3	20.4	2126

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1853-1973

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.9	
1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.2	.1	.1	.0	.0	.1	.0	.0	.1	.7	
	TOT %	.1	.3	.2	.2	.0	.0	.1	.1	.0	.1	1.1	
2<5	PCP	.0	.3	.3	.3	.2	.2	.2	.0	.0	.0	1.5	
	NO PCP	.9	.9	.6	.8	.3	.5	.4	.3	.0	.2	4.4	
	TOT %	.9	1.2	.9	1.1	.5	.6	.6	.3	.0	.2	5.9	
5<10	PCP	.1	.9	.9	.5	.4	.5	.2	.1	.0	.0	3.7	
	NO PCP	2.1	3.3	4.3	2.6	2.6	2.0	1.1	.7	.0	.3	21.1	
	TOT %	2.2	4.3	5.3	3.1	3.1	2.5	1.3	.8	.0	.3	24.7	
10+	PCP	.1	.5	.3	.4	.3	.3	.0	.0	.0	.0	2.0	
	NO PCP	8.9	17.4	13.2	10.4	8.9	5.7	1.5	1.2	.0	1.7	69.9	
	TOT %	9.0	17.9	13.5	10.9	9.2	6.0	1.6	1.2	.0	1.7	71.9	
TOT OBS													2693
TOT PCT		8.4	28.7	20.0	13.4	12.9	9.2	3.7	2.4	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.3	.2	.2	.1	.1	.1	.0	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.3	
	4-10	.1	.3	.3	.3	.4	.2	.2	.1	.0	.0	2.2	
	11-21	.3	.7	.2	.4	.2	.2	.1	.1	.0	.0	2.2	
	22+	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.9	1.2	.8	.9	.7	.6	.5	.2	.0	.2	5.3	
5<10	0-3	.2	.3	.2	.1	.3	.3	.1	.1	.0	.6	2.2	
	4-10	.7	2.0	2.3	1.4	1.1	.9	.6	.5	.0	.0	9.7	
	11-21	.9	2.7	1.7	1.1	.9	.8	.3	.1	.0	.0	8.6	
	22+	.3	.6	.2	.1	.2	.1	.1	.0	.0	.0	1.6	
	TOT %	2.1	5.6	4.5	2.6	2.6	2.1	1.0	.7	.0	.6	22.0	
10+	0-3	.2	.6	.7	1.0	.6	.4	.3	.2	.0	1.7	5.8	
	4-10	2.1	6.3	8.0	6.7	4.6	3.0	1.2	.8	.0	.0	32.6	
	11-21	3.1	10.6	6.2	3.3	2.7	2.0	.7	.2	.0	.0	28.8	
	22+	.5	1.8	.6	.2	.2	.4	.1	.0	.0	.0	3.3	
	TOT %	5.9	19.2	15.5	11.2	8.1	5.8	2.2	1.3	.0	1.7	70.7	
TOT OBS													3036
TOT PCT		8.6	26.4	21.1	13.1	11.3	8.7	3.9	2.2	.0	2.6	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1895-1973AREA 0009 RIO DE JANEIRO
22.75 41.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/M) >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.7	.4	2.1	8.9	16.4	8.7	3.7	.6	1.0	.4	49.9	36.1	317
06009	1.6	.4	1.0	10.2	13.3	8.4	6.3	.8	.6	.8	49.3	36.3	490
12019	.6	.0	1.6	8.7	13.2	9.3	4.3	1.0	1.2	1.2	41.3	38.7	306
18021	.2	.0	1.7	7.4	9.6	7.9	3.9	1.8	.4	1.7	34.4	63.6	343
TOT	21	4	39	180	269	176	94	22	16	21	836	1220	2056
PCT	1.0	.2	1.6	8.8	13.1	8.6	4.6	1.1	.8	1.0	40.7	59.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.3	.4	.9	6.1	22.3	69.8	1503
06009	.7	.7	1.8	3.9	22.7	68.3	1141
12019	.4	.3	1.2	3.1	22.1	70.8	1484
18021	.1	.2	1.6	6.1	19.9	72.1	1016
TOT	20	21	67	298	1121	3890	5114
PCT	.4	.4	1.3	5.8	21.9	70.2	100.0

TABLE 12

CUMULATIVE PCT PRG OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/M) >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.8	4.6	19.8	28.7	31.3	499
06009	1.7	3.6	20.2	27.6	32.2	471
12019	.6	2.9	16.3	29.4	34.3	486
18021	.3	2.1	17.0	22.6	60.4	330
TOT	21	68	362	533	1083	1982
PCT	1.1	3.3	18.3	27.0	54.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.2	.3	.1	.2	.0	12	.6
80/84	.0	.0	.0	.2	.3	2.0	1.0	.3	78	4.0
79/79	.0	.0	.1	.6	3.3	9.3	13.0	8.3	707	36.0
70/74	.0	.0	.0	.6	3.9	10.3	19.2	18.2	1028	52.2
69/69	.0	.0	.0	.3	.6	1.1	2.0	2.8	140	7.1
60/64	.0	.0	.0	.7	.6	.0	.1	.1	3	.2
TOTAL	0	0	1	34	183	492	736	389	1968	100.0
PCT	.0	.0	.1	1.7	7.8	23.0	37.3	30.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.1	.1	.3	.0	.0	.0	.0	.0	.0	.1
80/84	1.0	1.3	.6	.3	.4	.1	.1	.0	.0	.1
79/79	4.4	14.0	3.9	3.9	3.2	2.4	.7	.9	.0	.6
70/74	3.0	11.1	11.8	9.3	7.8	3.0	1.6	1.0	.0	1.4
69/69	.0	.6	.9	1.6	1.8	1.4	.4	.2	.0	.3
60/64	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	8.5	27.1	19.3	19.0	13.4	9.0	2.4	2.2	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	80	78	73	68	65	59	72.9	3069
06009	84	79	77	72	67	64	59	72.2	2019
12019	92	83	81	78	69	64	61	74.7	3108
18021	90	89	82	79	70	64	61	73.3	1641
TOT	92	83	80	73	68	66	59	73.8	9834

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	7.4	16.3	33.6	39.0		85		391
06009	.0	.8	9.7	16.6	33.9	41.0		86		476
12015	.0	2.3	7.3	26.8	39.4	24.1		82		323
18021	.0	2.2	10.0	32.3	38.8	16.6		80		439
TOT	0	35	133	438	751	612		83		2009

NOVEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1855-1973

AREA 0009 RIO DE JANEIRO
22.75 -1.4M

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	3	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.2	.1	.0	14	.0	.6
9/10	.0	.0	.0	.0	.2	.2	.4	.0	.0	18	.0	.8
7/8	.0	.0	.0	.1	.4	.5	.7	.2	.0	43	.1	1.8
6	.0	.0	.0	.0	.2	1.0	.3	.0	.0	34	.0	1.5
5	.0	.0	.0	.4	.6	1.8	.4	.0	.0	72	.0	3.1
4	.0	.0	.1	.3	1.9	1.2	.3	.0	.0	94	.0	4.1
3	.0	.0	.1	1.1	3.0	2.0	.1	.0	.0	142	.1	6.2
2	.0	.0	.2	1.9	5.9	2.4	.0	.0	.0	236	.2	10.2
1	.0	.1	.1	2.7	8.7	1.9	.1	.0	.0	307	.2	13.4
0	.0	.0	.3	5.3	10.9	1.2	.0	.0	.0	409	.2	17.8
-1	.0	.0	.0	3.9	7.0	1.1	.0	.0	.0	283	.2	12.3
-2	.0	.0	.0	.9	4.4	.7	.0	.0	.0	228	.1	10.0
-3	.0	.0	.0	3.5	2.8	.1	.0	.0	.0	198	.0	7.0
-4	.0	.0	.0	1.8	1.4	.1	.0	.0	.0	97	.0	4.3
-5	.0	.0	.0	1.2	.7	.1	.0	.0	.0	60	.0	2.7
-6	.0	.0	.0	.3	.2	.0	.0	.0	.0	26	.0	1.2
-7/-8	.0	.1	.3	.4	.1	.0	.0	.0	.0	29	.0	1.1
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.2
-11/-12	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.2
-13/-14	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	8	11	128	628	1089	324	61	9	4	2238	31	2227
PCT	.1	.5	5.7	27.8	48.2	14.4	2.7	.4	.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT	MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5	<1	.2	.3	.0	.0	.0	.0	.5
1-2	.3	1.8	.0	.0	.0	.0	3.0	1-2	.2	2.8	3.5	.0	.0	.0	6.6
3-4	.0	.0	2.3	.0	.0	.0	5.2	3-4	.0	1.8	6.9	.0	.0	.0	9.0
5-6	.0	.0	1.4	.0	.0	.0	1.4	5-6	.0	.3	3.4	1.0	.0	.0	4.7
7	.0	.0	.2	.0	.0	.0	.4	7	.0	.1	1.1	.7	.0	.0	2.0
8-9	.0	.0	.2	.0	.0	.0	.4	8-9	.0	.0	.8	.1	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	.0	.0	.0	.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.3	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.2	5.8	.8	.0	.0	10.2	TOT PCT	.4	5.3	19.2	2.2	.0	.0	29.3

MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT	MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.4	.3	.0	.0	.0	.0	.8
1-2	.7	3.5	1.7	.0	.0	.0	7.8	1-2	.4	3.1	2.1	.0	.0	.0	9.6
3-4	.1	2.5	3.7	.1	.0	.0	6.4	3-4	.1	2.4	2.7	.1	.0	.0	5.3
5-6	.0	.3	1.8	.2	.0	.0	2.3	5-6	.0	.2	1.4	.3	.0	.0	2.2
7	.0	.4	1.0	.3	.0	.0	1.6	7	.0	.0	.3	.0	.0	.0	.9
8-9	.0	.0	.2	.3	.0	.0	.5	8-9	.0	.0	.4	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.1	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.2	8.4	.3	.0	.0	19.2	TOT PCT	.8	6.2	7.4	.8	.0	.0	19.2

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0009 RIO DE JANEIRO
22.73 41.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.3	.3	.2	.0	.0	.0	.0	.3
1-2	.3	4.0	.8	.0	.0	.0	5.1	.3	1.9	.8	.0	.0	.0	2.7
3-4	.1	1.9	1.7	.0	.0	.0	3.9	.1	1.1	1.4	.1	.0	.0	2.8
5-6	.0	.2	2.1	.8	.0	.0	2.9	.0	.2	.7	.4	.0	.0	1.5
7	.0	.0	.4	.1	.0	.0	.3	.0	.1	.8	.8	.0	.0	1.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.4	5.2	.7	.0	.0	13.0	.5	3.7	3.5	1.8	.0	.0	9.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.6	.0	.0	.0	1.6	.0	1.0	.4	.0	.0	.0	1.4	.0
3-4	.0	1.1	.6	.0	.0	.0	1.7	.0	.1	.8	.0	.0	.0	.9	.0
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0
7	.0	.0	.3	.1	.1	.0	.5	.0	.0	.2	.0	.0	.0	.2	.0
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	1.7	.4	.1	.0	4.5	.0	1.1	1.7	.0	.0	.0	2.8	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	2.5	.0	.0	.0	.0	6.1	
1-2	3.0	21.2	10.4	.0	.0	.0	34.8	
3-4	.4	11.7	20.1	.8	.0	.0	32.9	
5-6	.0	1.3	11.7	2.9	.0	.0	15.8	
7	.0	.6	4.1	2.4	.1	.0	7.2	
8-9	.0	.1	1.7	1.0	.0	.0	2.8	
10-11	.0	.0	.3	.4	.0	.0	.7	
12	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	37.3	48.3	7.3	.1	.0	100.0	1002

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	12.6	15.7	6.6	2.6	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	711	3
6-7	.0	1.6	9.3	11.3	9.3	1.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	530	5
8-9	.0	.2	2.6	2.6	3.8	1.6	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	6
10-11	.0	.3	.3	.3	.8	.7	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	7
12-13	.0	.0	.5	.2	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
14-15	.0	.0	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
16-17	1.9	2.0	4.7	1.5	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	219	3
TOTAL	63	296	588	410	256	91	40	20	10	0	0	0	0	0	0	0	0	0	0	1776	4
PCT	3.7	16.7	33.1	23.1	14.4	5.1	2.3	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA	
N	3.0	1.9	2.8	.0	.0	.0	.0	9.3	3.8	4.4	2.0	.3	2.2	.0	78.3	
NE	2.1	.4	1.3	.0	.0	.0	.0	3.8	1.0	2.2	1.4	.0	2.2	.0	89.3	
E	2.0	.7	.8	.0	.0	.0	.0	3.5	2.2	1.9	2.3	.4	2.6	.0	88.8	
SE	6.3	.8	3.3	.0	.0	.0	.0	9.9	2.9	1.1	1.9	.0	.8	.0	83.7	
S	9.2	3.0	4.4	.0	.0	.0	.0	13.4	3.6	1.2	1.7	.0	.2	.4	77.6	
SW	9.1	3.9	3.6	.0	.0	.0	.0	17.5	5.4	1.6	2.3	.0	1.4	.0	70.7	
W	6.8	3.3	2.3	.0	.0	.0	.0	11.8	4.3	3.3	5.3	.0	6.8	.0	67.3	
NW	6.2	3.3	3.6	.0	.0	.0	.0	13.0	1.1	4.3	.7	.0	1.4	.0	79.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5	.0	.0	.0	.0	.0	.0	3.5	1.8	1.8	12.3	.0	.0	.0	80.7	
TOT PCT OBS:	4.6	1.4	2.4	.0	.0	.0	.0	8.1	2.6	2.3	2.3	.1	1.9	*	82.7	
	2320															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	4.2	2.3	3.0	.0	.0	.0	.0	11.1	2.7	6.3	2.0	.2	.8	.2	77.4
0600	4.4	1.9	2.0	.0	.0	.0	.2	7.9	3.2	2.3	3.7	.0	.8	.0	81.6
1200	4.9	1.1	2.4	.0	.0	.0	.0	8.1	2.1	.3	2.6	.3	3.2	.0	83.3
1800	3.2	.9	2.2	.0	.0	.0	.0	6.1	2.5	.0	1.6	.0	2.7	.0	87.0
TOT PCT TOT OBS:	4.7 2404	1.3	2.4	.0	.0	.0	*	8.4	2.6	2.3	2.3	.1	1.9	*	82.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	4.7	5.9	1.3	.1	*		13.1	13.0	9.6	10.7	13.3	16.3	15.7	17.1	12.2	11.0	
NE	1.3	10.4	12.6	2.3	.3	*		27.3	12.7	26.2	28.2	27.1	27.4	27.9	26.4	28.1	29.6	
E	1.2	10.3	6.4	.3	*	.0		18.6	10.1	22.7	21.1	19.4	18.0	19.1	19.0	18.0	23.3	
SE	1.0	8.3	4.1	.3	*	.0		13.7	9.4	13.5	14.4	11.3	13.0	11.8	13.2	16.4	12.3	
S	1.1	4.3	3.7	.6	*	.0		9.5	10.4	11.5	7.9	7.8	8.0	8.9	9.3	11.2	10.0	
SW	.8	3.4	1.7	.3	*	.0		6.2	9.3	3.9	3.8	6.1	4.3	6.9	7.0	5.9	1.9	
W	.8	2.2	.8	.1	*	*		3.9	8.2	3.1	3.5	4.8	3.3	3.5	3.6	2.3	4.2	
NW	.4	2.0	1.1	.3	*	*		3.8	10.2	2.1	4.1	4.3	9.6	3.7	3.2	2.9	3.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9							3.9	.0	3.4	4.2	3.6	.0	4.4	3.0	2.7	2.3	
TOT OBS	1061	4374	3386	346	33	3	9429		10.6	1669	1238	1782	115	1389	1412	1484	120	
TOT PCT	11.3	46.4	35.9	3.8	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	09	18
N	2.7	6.3	3.7	.4	.1	13.1	13.0	10.0	13.4	16.4	12.2	
NE	5.2	14.3	6.8	.8	.1	27.3	12.7	27.1	27.2	28.2		
E	3.3	11.1	2.2	.1	*	18.6	10.1	22.0	19.3	13.1	16.4	
SE	4.4	8.0	1.2	.1	.0	13.7	9.4	13.1	11.6	12.4	16.1	
S	3.4	4.3	1.6	.2	*	9.5	10.4	9.9	7.8	9.2	11.1	
SW	2.4	3.0	.8	.1	*	6.2	9.3	3.9	6.0	7.0	3.6	
W	1.9	1.7	.3	*	*	3.9	8.2	3.3	4.7	4.6	2.7	
NW	1.4	1.7	.6	.1	*	3.8	10.2	2.9	4.8	4.4	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.9					3.9	.0	3.7	3.3	3.8	2.7	
TOT OBS	2873	4749	1621	161	23	9429	10.6	2927	1897	3001	1604	
TOT PCT	30.3	50.4	17.2	1.7	.3		100.0	100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.7	7.0	45.8	37.7	5.0	.7			10.6	100.0	2937
0600Z	5.3	6.5	48.4	33.8	5.4	.9			10.4	100.0	1897
1201Z	3.8	9.1	45.6	33.9	7.0	.6			10.5	100.0	3001
1801Z	2.7	5.9	46.5	38.8	5.5	.9			10.9	100.0	1804
TOT	365	698	4374	3386	548	55			10.6		9429
PCT	3.9	7.4	46.4	35.9	5.8	.8			10.6		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.2	1.9	4.1	2.8		4.4
NE	11.5	5.0	7.3	4.0		3.7
E	8.7	4.6	5.8	3.1		4.1
SE	1.9	2.9	3.9	3.0		3.3
S	1.9	2.3	7.4	3.8		3.4
SW	1.1	.5	1.6	3.1		0.0
W	.3	.7	1.3	1.8		6.0
NW	.3	.4	1.3	.7		3.4
VAR	1.0	.0	.0	.0		.0
CALM	1.0	.4	.8	.4		4.1
TOT OBS	520	327	328	406	1779	4.6
TOT PCT	29.2	18.4	19.6	22.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) > 4/8
AND OCCURRENCE OF NH < 4/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY HGT	TOTAL OBS
N	.0	.1	.2	.6	1.3	.8	.7	.1	.0	.2	.0	9.0
NE	.1	.2	.0	1.1	1.3	1.4	1.2	.1	.1	.1	.1	22.1
E	.1	.0	.0	.8	1.7	1.5	.8	.1	.0	.0	.0	14.4
SE	.1	.0	.0	.7	1.9	1.1	.9	.2	.0	.1	.0	6.6
S	.0	.0	.0	.8	1.9	1.1	1.0	.3	.1	.1	.0	6.2
SW	.1	.0	.2	.6	1.0	.7	.7	.1	.0	.1	.0	2.8
W	.2	.0	.1	.7	.9	.4	.9	.1	.1	.0	.0	2.2
NW	.0	.1	.1	.3	.3	.1	.4	.1	.0	.0	.0	1.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.1	.1	.2	.4	.0	.1	.0	.0	.0	.0	1.9
TOT OBS	13	7	20	102	177	128	107	20	7	13	1187	1779
TOT PCT	.7	.4	1.1	5.7	9.9	7.1	6.0	1.1	.4	.7	66.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) > 4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 8	> 6	> 4	> 1/2	> 1/4	> 30YD	> 0
> 6500	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
> 5000	1.5	2.1	2.3	2.3	2.3	2.3	2.3	2.3
> 3500	4.2	6.6	8.1	8.2	8.3	8.3	8.3	8.3
> 2000	9.3	13.3	15.0	15.4	15.9	15.9	15.9	15.9
> 1000	16.7	22.9	25.0	25.4	25.9	25.9	25.9	25.9
> 600	20.2	28.2	30.8	31.1	31.2	31.2	31.2	31.3
> 300	20.6	28.8	31.4	32.1	32.2	32.2	32.2	32.2
> 150	20.9	29.2	31.8	32.4	32.6	32.6	32.6	32.6
> 0	20.9	29.3	32.3	33.0	33.2	33.2	33.2	33.3
TOTAL	376	329	302	293	298	299	299	301

TOTAL NUMBER OF OBS: 1803

PCT FREQ NH < 4/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	19.8	14.2	13.1	10.6	7.8	5.5	6.9	7.9	13.4	1919

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1857-1973

AREA 0009 RIO DE JANEIRO
22.75 41.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1<2	PCP	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.6	
	NO PCP	.1	.0	.0	.1	.1	.1	.1	.0	.0	.1	.6	
	TOT %	.2	.1	.1	.2	.2	.2	.2	.0	.0	.1	1.2	
2<5	PCP	.1	.2	.1	.3	.3	.2	.0	.0	.0	.1	1.6	
	NO PCP	.3	.6	1.0	.5	.4	.3	.3	.2	.0	.1	3.8	
	TOT %	.4	.8	1.1	.9	.9	.5	.3	.2	.0	.2	5.4	
5<10	PCP	.7	.5	.4	.6	.9	.4	.2	.2	.0	.0	3.9	
	NO PCP	3.0	3.1	3.3	2.9	1.8	1.1	1.0	.3	.0	.4	19.2	
	TOT %	3.7	3.5	3.9	3.5	2.7	1.5	1.3	.5	.0	.4	23.1	
10+	PCP	.3	.2	.1	.2	.2	.3	.1	.2	.0	.0	1.6	
	NO PCP	8.9	20.2	13.9	7.9	7.3	3.6	2.3	2.1	.0	1.7	67.4	
	TOT %	9.2	20.4	14.0	8.1	7.5	3.9	2.4	2.2	.0	1.7	69.4	
TOT DBS													2315
TOT PCT		13.6	27.0	19.2	12.8	11.5	6.2	4.3	3.0	.0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	11-21	.1	.0	.1	.0	.1	.0	.1	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.2	.2	.2	.1	.1	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.4	
	4-10	.2	.3	.4	.4	.3	.2	.1	.2	.0	.0	2.3	
	11-21	.2	.4	.3	.4	.3	.2	.1	.2	.0	.0	2.0	
	22+	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.5	1.0	.7	.8	.7	.5	.3	.2	.0	.2	5.0	
5<10	0-3	.2	.3	.2	.1	.1	.1	.1	.1	.0	.4	1.6	
	4-10	1.0	1.8	1.9	1.3	1.1	.7	.7	.3	.0	.0	9.0	
	11-21	1.3	2.3	1.2	1.4	.9	.5	.2	.1	.0	.0	8.2	
	22+	.3	.6	.1	.1	.3	.1	.1	.0	.0	.0	1.8	
	TOT %	2.2	3.3	3.3	3.0	2.3	1.4	1.0	.8	.0	.4	20.6	
10+	0-3	.3	.8	.8	.9	.6	.4	.4	.2	.0	2.4	7.0	
	4-10	3.0	8.6	8.9	5.9	3.4	2.6	1.4	1.3	.0	.0	35.2	
	11-21	4.3	10.2	5.9	2.6	2.4	1.2	.7	.5	.0	.0	27.8	
	22+	.9	.9	.3	.2	.3	.2	.0	.1	.0	.0	2.9	
	TOT %	8.8	20.5	15.9	9.5	6.9	4.3	2.5	2.0	.0	2.4	72.8	
TOT DBS													4623
TOT PCT		12.6	26.9	20.5	13.7	10.2	6.4	4.0	2.8	.0	3.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1917-1973
(OVER-ALL) 1857-1973AREA 0009 RIO DE JANEIRO
22.7S 41.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
0000	1.1	.4	1.8	5.3	9.4	8.1	6.4	1.1	.2	.7	34.4	65.6	456
0600	1.3	.2	1.1	7.0	10.0	5.9	4.9	.8	.8	.6	32.6	67.4	472
1200	.4	.6	.9	5.7	9.6	7.0	5.1	1.1	.6	.6	31.7	68.3	470
1800	.2	.2	.9	4.1	9.8	7.2	7.0	1.3	.0	.9	31.6	68.2	469
TOT	14	7	21	103	181	132	109	21	8	13	609	1250	1867
PCT	.7	.4	1.1	5.3	9.7	7.1	5.8	1.1	.4	.7	32.6	67.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.4	.3	1.0	4.2	22.2	71.9	1368
0600	.8	.4	.5	5.2	21.1	71.5	1072
1200	.4	.6	1.3	5.1	20.2	72.3	1361
1800	.6	.0	1.3	5.3	19.0	73.8	906
TOT	25	16	34	231	977	3404	4707
PCT	.5	.3	1.1	4.9	20.8	72.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
0000	1.1	3.2	12.3	23.9	63.9	460
0600	1.1	2.4	14.8	20.8	64.3	453
1200	.4	2.4	13.8	22.6	63.6	456
1800	.4	1.8	11.2	24.2	64.3	454
TOT	14	44	233	412	1156	1803
PCT	.8	2.4	13.0	22.9	64.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.1	.2	.0	.0	.0	3	.3
55/59	.0	.0	.1	.1	.2	.3	.1	.0	11	.6
60/64	.0	.0	.2	1.1	4.7	4.0	1.1	.0	194	11.1
65/69	.0	.0	.9	2.6	9.2	24.3	16.2	.0	920	52.8
70/74	.0	.0	.9	2.6	5.3	9.1	13.1	.0	363	22.4
75/79	.0	.0	.0	.1	.0	1.1	1.4	.0	47	2.7
80/84	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	0	1	22	117	340	673	390	1743	100.0
PCT	.0	.0	.1	1.3	6.7	19.5	38.6	33.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.1	.1	.1	.0	.0	.0	.0	.0	.0
55/59	.2	.3	.1	.0	.0	.1	.0	.0	.0
60/64	2.9	4.2	1.3	.7	.3	.4	.3	.0	.2
65/69	9.3	17.7	8.0	5.0	4.7	2.8	2.3	1.7	1.3
70/74	2.5	5.9	7.7	5.8	5.0	2.4	1.2	.9	1.1
75/79	.1	.3	.3	.6	.4	.6	.6	.0	.0
80/84	.1	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	19.0	28.3	17.5	12.1	10.8	6.1	4.9	3.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	86	82	79	75	70	67	57	74.8	2904
0600	86	81	78	74	69	67	63	74.1	1907
1200	90	84	82	76	71	68	65	76.3	2909
1800	92	87	83	77	72	69	66	77.3	1336
TOT	92	84	81	76	70	68	57	73.6	9256

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.6	4.8	13.8	35.6	43.0	86	480		
0600	.0	.7	3.4	11.8	33.7	48.4	87	442		
1200	.0	1.7	7.6	22.9	40.9	26.8	83	462		
1800	.0	2.2	11.3	29.3	41.1	15.9	80	409		
TOT	0	24	120	344	686	619	94	1799		

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1957-1973

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 7

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	M FUG	MO FOG
20/22	.0	.0	.0	.0	.0	.1	.0		2	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0		1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0		2	.0	.1
11/13	.0	.0	.0	.1	.1	.1	.1		14	.0	.6
9/10	.0	.0	.0	.4	.4	.4	.2		31	.0	1.5
7/8	.0	.0	.3	.3	1.1	.8	.3		60	.0	3.0
6	.0	.0	.0	.3	.7	.3	.1		34	.0	1.7
5	.0	.0	.4	1.0	1.1	1.0	.0		73	.1	3.5
4	.0	.0	.3	1.8	2.0	1.1	.0		109	.2	5.2
3	.0	.0	.5	2.6	3.1	.8	.0		142	.2	6.8
2	.0	.1	.8	3.7	4.7	.7	.0		244	.1	11.9
1	.0	.1	1.1	6.1	5.8	.3	.0		270	.5	12.9
0	.0	.1	2.6	8.0	5.9	.3	.0		344	.2	16.8
-1	.0	.0	1.2	6.3	3.3	.1	.0		222	.0	11.0
-2	.0	.2	7.4	5.1	1.4	.0	.0		186	.2	9.0
-3	.0	.1	1.5	2.8	.7	.0	.0		103	.1	5.1
-4	.0	.1	1.4	1.9	.2	.0	.0		74	.0	3.7
-5	.0	.1	1.0	1.0	.2	.0	.0		48	.1	2.2
-6	.0	.1	.5	.3	.1	.0	.0		22	.0	1.1
-7/-8	.0	.2	.4	.6	.1	.0	.0		29	.0	1.4
-9/-10	.0	.0	.2	.1	.0	.0	.0		7	.0	.3
-11/-13	.0	.0	.0	.0	.0	.0	.0		1	.0	.0
TOTAL	2		299		627		20		2020		1982
PCT	.1	1.4	14.8	44.8	31.0	6.3	1.0	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 10

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	41	.0	.7	.0	.0	.0	.0	1.4
1-2	.0	2.1	.0	.0	.0	.0	3.0	1-2	.0	6.7	3.3	.0	.0	.0	9.3
3-4	.0	1.1	2.5	.1	.0	.0	3.6	3-4	.0	2.3	6.9	.7	.0	.0	9.9
5-6	.0	.3	2.3	.3	.0	.0	3.1	5-6	.0	.3	4.3	.6	.0	.0	5.4
7	.0	.0	.7	.2	.0	.0	.9	7	.0	.0	.8	.6	.0	.0	1.3
8-9	.0	.0	.2	.1	.0	.0	.3	8-9	.0	.1	.0	.2	.0	.0	.3
10-11	.0	.0	.0	.4	.0	.0	.4	10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	6.7	1.3	.0	.0	11.7	TOT PCT	.0	10.1	13.1	4.0	.0	.0	28.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.9	.1	.0	.0	.0	1.0	41	.1	.3	.0	.0	.0	.0	.4
1-2	.1	5.8	2.9	.0	.0	.0	8.8	1-2	.1	2.9	.7	.0	.0	.0	3.7
3-4	.1	3.3	4.6	.0	.0	.0	8.2	3-4	.0	1.8	3.4	.0	.0	.0	4.2
5-6	.0	.3	3.8	.1	.0	.0	3.9	5-6	.0	.3	1.4	.0	.0	.0	1.7
7	.0	.1	.4	.1	.0	.0	.7	7	.0	.2	.9	.4	.0	.0	1.3
8-9	.0	.0	.0	.3	.0	.0	.3	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.1	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	10.8	11.0	.3	.0	.0	22.4	TOT PCT	.3	3.6	3.9	.6	.0	.0	12.3

PERIOD: (OVER-ALL) 1949-1979

DECEMBER

AREA 0009 RIO DE JANEIRO
22.75 41.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0		.2	.5	.1	.0	.0	.0	.0		.6
1-2	.3	1.8	1.5	.0	.0	.0		3.6	.1	2.2	.3	.0	.0	.0		2.7
3-4	.0	1.6	1.3	.0	.0	.0		2.9	.0	.8	1.0	.0	.0	.0		1.8
5-6	.0	.2	1.1	.3	.0	.0		1.6	.0	.1	.4	.1	.0	.0		.8
7	.0	.1	1.1	.3	.0	.0		1.6	.0	.0	.4	.0	.0	.0		.4
8-9	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	3.9	5.1	.9	.0	.0		10.2	.6	2.2	2.3	.2	.0	.0		6.4

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.1	.0	.0	.0	.0	.0		.2
1-2	.1	1.6	.7	.0	.0	.0		2.4	.4	.9	.0	.0	.0	.0		1.3
3-4	.0	.8	.1	.0	.0	.0		.9	.0	.4	.1	.0	.0	.0		.5
5-6	.0	.3	.2	.0	.0	.0		.4	.0	.0	.2	.0	.0	.0		.2
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.1	.0	.0		.1	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.1	2.7	1.0	.1	.0	.0		3.9	.3	1.3	.3	.0	.0	.0		2.2 97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	2.6	.1	.0	.0	.0	7.8	
1-2	2.0	23.8	9.4	.0	.0	.0	35.2	
3-4	.1	12.1	18.6	.7	.0	.0	31.5	
5-6	.1	1.9	13.1	1.6	.0	.0	16.7	
7	.0	.4	4.2	1.6	.0	.0	6.2	
8-9	.0	.1	.6	.6	.0	.0	1.4	
10-11	.0	.0	.4	.9	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.1	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	41.0	46.3	9.9	.0	.0	100.0	802

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	13.9	16.6	7.0	1.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	639	3
6-7	.0	1.9	9.6	12.3	3.7	2.4	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	304	5
8-9	.1	.2	2.0	3.4	2.6	1.3	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	6
10-11	.0	.7	.3	.4	.8	.6	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	6
12-13	.0	.0	.5	.2	.4	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
13-19	.0	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
TOTAL	2.9	2.3	2.9	1.5	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	3
PCT	9.0	18.3	31.9	25.1	12.0	3.4	1.1	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1894-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FG NO PCPN	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	1.0	.9	.0	.0	.0	.	3.9	2.1	2.2	2.0	.1	2.5	.1	87.2
NE	1.7	.8	.7	.0	.0	.0	.0	3.2	1.2	1.6	2.0	.	2.1	.	90.0
E	2.5	1.6	1.1	.0	.0	.0	.0	3.1	2.5	1.3	1.3	.1	1.9	.	87.8
SE	4.7	2.2	2.3	.0	.0	.0	.0	9.0	3.4	1.3	1.1	.	1.2	.	84.3
S	3.1	2.4	2.0	.0	.0	.0	.	9.3	4.3	1.3	1.2	.1	1.5	.1	82.3
SW	4.4	2.3	2.3	.0	.0	.0	.0	9.8	3.4	2.0	2.3	.1	2.3	.	80.0
W	3.3	2.4	2.2	.0	.0	.0	.0	9.6	3.2	3.2	3.8	.3	2.8	.1	77.3
NW	4.8	1.9	2.4	.0	.0	.0	.0	9.0	2.7	2.7	3.3	.0	2.8	.	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.	.0
CALP	2.1	.5	1.4	.0	.0	.0	.0	3.7	1.9	2.3	3.9	.2	4.8	.0	81.2
TOT PCT	3.0	1.4	1.4	.0	.0	.0	.	3.9	2.5	1.7	1.9	.1	2.0	.	86.0
TOT OBS:	33168														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FG NO PCPN	FG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.8	1.9	1.8	.0	.0	.0	.	7.3	2.3	4.1	1.3	.	1.4	.	83.7
0400	3.3	1.7	1.6	.0	.0	.0	.	6.4	3.3	2.6	2.3	.	1.3	.	84.1
1200	3.0	1.7	1.1	.0	.0	.0	.	5.8	2.1	.2	2.3	.2	2.9	.	86.8
1800	2.2	1.3	1.3	.0	.0	.0	.0	4.7	2.1	.2	1.7	.1	2.4	.	88.9
TOT PCT	3.1	1.6	1.4	.0	.0	.0	.	6.0	2.4	1.8	2.0	.1	2.0	.	85.8
TOT OBS:	34317														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	4.9	4.9	.9	.1	.		11.4	11.8		7.8	9.0	11.4	12.9	14.7	14.8	10.6	9.9
NE	1.4	11.3	12.4	2.0	.1	.		27.4	11.9		26.3	27.3	28.7	27.8	28.1	23.7	28.1	27.3
E	1.6	9.4	9.9	.6	.	.		17.6	9.9		20.9	20.1	17.5	18.7	14.8	13.0	17.2	20.8
SE	1.3	7.2	3.9	.3	.	.		13.0	9.7		19.3	13.7	11.6	13.4	10.9	12.2	14.0	13.8
S	1.2	3.1	3.1	.3	.	.		9.9	9.9		11.8	9.3	8.8	8.4	8.6	9.3	11.7	10.7
SW	.9	4.3	2.9	.6	.1	.		8.8	10.3		8.3	8.1	8.1	7.2	9.2	9.2	10.1	7.3
W	.7	2.4	1.1	.2	.	.		4.4	9.1		3.3	4.3	4.9	4.7	3.4	3.3	3.3	4.1
NW	.3	1.8	.8	.2	.	.		3.3	9.1		1.9	3.2	3.6	4.4	4.0	4.7	2.8	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		9.9	4.8	3.4	2.3	4.2	3.7	2.3	1.9
TOT OBS							123334		10.3		21842	18419	23130	1703	20865	18367	19373	1816
TOT PCT	12.3	46.4	39.0	3.6	.4	.		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PRSQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.8	3.6	2.7	.2	.		11.4	11.8	8.3	11.3	14.8	10.3	
NE	3.6	15.1	6.2	.3	.		27.4	11.9	26.7	28.6	27.0	28.0	
E	3.3	9.8	2.2	.1	.		17.6	9.9	20.6	17.6	14.9	17.3	
SE	4.3	6.7	1.6	.1	.		13.0	9.7	14.7	11.7	11.3	14.0	
S	3.6	4.7	1.3	.1	.		9.9	9.9	10.8	8.7	8.0	11.6	
SW	2.8	4.3	1.3	.2	.		8.8	10.3	8.4	8.1	9.2	9.9	
W	1.9	1.9	.3	.1	.		4.4	9.1	3.7	4.9	3.4	2.3	
NW	1.3	1.4	.4	.	.		3.3	9.1	2.4	3.6	4.3	2.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	4.1						4.1	.0	4.3	3.2	4.0	2.3	
TOT OBS						123334		10.3	38237	24853	39235	21189	
TOT PCT	32.3	49.6	10.4	1.3	.1			100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			46+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.3	8.1	47.9	34.2	5.4	.4	*	10.2	100.0	38237
06009	3.2	8.4	46.7	34.2	5.2	.3	*	10.1	100.0	24889
12015	4.0	9.5	45.1	35.0	6.0	.4	*	10.3	100.0	39235
18021	2.5	7.2	46.7	37.7	5.6	.3	*	10.7	100.0	21189
TOT								10.3		123536
PCT	4.1	8.5	46.4	35.0	5.6	.4	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	1.6	2.8	1.9		3.8
NE	14.9	5.6	6.8	3.3		3.2
E	7.0	3.7	4.8	3.3		3.9
SE	3.1	2.3	3.7	3.0		4.8
S	2.3	1.8	3.1	2.8		3.0
SW	1.8	1.4	2.7	2.5		3.2
W	.8	.6	1.1	1.2		3.2
NW	.6	.4	.7	.8		4.9
VAR	.0	.0	.0	.0		3.6
CALM	1.3	.5	.7	.5		4.1
TOT OBS					24210	
TOT PCT	36.2	18.2	26.5	19.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	400	1000	2000	2500	3000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.	.1	.5	.8	.5	.4	.	.1	.1	8.3	
.1	.1	.2	1.1	1.6	1.3	.7	.2	.1	.2	24.9	
.1	.	.2	1.1	1.6	1.2	.6	.2	.1	.1	13.3	
.1	.	.2	.9	1.6	1.0	.5	.2	.1	.1	7.3	
.1	.	.2	.8	1.6	1.0	.5	.1	.1	.1	5.8	
.1	.	.2	.8	1.3	.8	.5	.2	.	.1	4.5	
.1	.	.1	.3	.6	.4	.2	.1	.	.	2.0	
.	.	.1	.2	.2	.2	.1	.1	.	.	1.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.	.	.	.2	.2	.1	.1	.	.	.	2.2	
.8	.2	1.2	6.0	9.8	6.4	3.5	1.0	.4	.7	89.8	24210
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>3500	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>3000	1.5	2.0	2.2	2.3	2.3	2.3	2.3	2.3
>2500	2.5	4.9	5.6	5.8	5.8	5.8	5.8	5.8
>2000	7.7	10.7	11.8	12.1	12.2	12.2	12.2	12.2
>1500	14.7	19.8	21.4	21.8	21.9	22.0	22.0	22.0
>1000	18.6	23.9	27.3	27.7	27.9	28.0	28.0	28.0
>900	19.1	26.2	28.3	28.6	29.0	29.0	29.1	29.1
>150	19.2	26.4	28.5	29.0	29.2	29.3	29.3	29.3
>0	19.3	26.7	29.1	29.8	29.9	30.0	30.1	30.2

TOTAL NUMBER OF OBS: 24402

PCT FREQ NM <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
18.6	17.0	14.9	10.9	7.7	5.5	6.1	4.3	12.4	.6	26332

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1954-1974

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1<2	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
2<5	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
5<10	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
10+	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
TOT OBS													33131
TOT PCT		10.9	29.6	18.6	12.4	10.3	8.5	4.0	2.7	0	2.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1<2	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
2<5	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
5<10	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
10+	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
	22+	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
TOT OBS													3345
TOT PCT		11.0	28.4	18.8	12.4	9.9	8.6	4.2	2.7	0	3.3	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	180 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	1.2	.2	1.0	6.0	9.0	5.8	3.3	.9	.4	.5	28.4	71.6	6365
0600	1.2	.3	1.2	6.5	10.4	5.8	3.8	.8	.5	.9	31.4	68.6	6363
1200	.4	.3	1.2	6.0	10.3	7.3	3.4	1.1	.5	.7	31.1	68.9	6497
1800	.4	.1	1.1	4.6	8.5	6.1	3.5	1.3	.4	.9	26.6	73.4	6507
TOT PCT	.8	.2	1.1	5.8	9.5	6.2	3.5	1.0	.4	.8	29.3	70.7	25732 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.3	.3	1.1	4.7	19.8	73.9	16997
0600	.6	.4	1.3	4.9	19.3	73.3	14190
1200	.4	.3	1.2	4.2	19.3	74.3	16974
1800	.3	.3	1.2	4.2	18.0	76.0	12467
TOT PCT	.4	.3	1.2	4.3	19.3	74.3	64628 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<180 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	1.2	2.8	12.9	18.9	68.2	6056
0600	1.3	3.3	14.9	20.0	63.1	6084
1200	.4	2.3	12.9	21.8	63.3	6228
1800	.4	2.3	11.1	18.5	70.4	6234
TOT PCT	.8	2.6	13.0	19.8	67.2	24602 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0
85/89	.0	.0	.0	.1	.3	.5	.1	.1	1.1	.1
80/84	.0	.0	.1	.2	1.1	4.5	9.8	1.1	10.6	.3
75/79	.0	.0	.0	.6	2.3	9.0	15.9	6.9	36.7	.9
70/74	.0	.0	.1	.7	3.6	8.1	15.0	12.8	40.2	1.2
65/69	.0	.0	.0	.4	1.3	2.0	3.6	3.1	10.5	.3
60/64	.0	.0	.0	.1	.1	.2	.2	.3	.8	.0
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL									24254	100.0
PCT	.0	.0	.2	2.0	8.6	24.3	38.7	26.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.2	.3	.2	.1	.0	.0	.0	.0	.0	.1
80/84	2.1	4.1	1.6	.8	.6	.5	.2	.3	.0	.3
75/79	3.1	12.1	6.1	4.3	3.3	3.4	1.2	1.0	.0	1.1
70/74	3.4	11.6	8.0	3.3	4.6	3.8	1.3	.9	.0	1.2
65/69	.4	1.6	2.0	2.0	1.7	1.5	.6	.2	.0	.3
60/64	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.3	29.8	18.2	12.5	10.5	8.5	3.7	2.5	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	91	80	78	74	68	66	54	73.5	38043
0600	95	79	77	73	68	65	54	72.7	24865
1200	99	84	81	75	69	66	53	75.1	38210
1800	95	83	82	74	70	67	55	75.9	20510
TOT	95	83	80	74	69	66	54	74.2	121628

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.3	7.0	20.0	39.3	32.5			84	6820
0600	.0	1.2	5.7	17.3	39.2	36.6			83	5860
1200	.0	2.7	9.3	26.2	39.6	22.2			81	6835
1800	.0	3.6	13.0	33.9	35.6	13.9			79	5491
TOT	1	534	2170	6065	9643	6593			82	25006

PERIOD: (PRIMARY) 1911-1974
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 54	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	126	.0	.4
9/10	.0	.0	.0	.0	.0	.2	.2	.3	.1	.0	.0	213	.0	.8
7/8	.0	.0	.0	.0	.1	.3	.5	.4	.2	.0	.0	439	.0	1.6
6	.0	.0	.0	.0	.1	.4	.6	.3	.1	.0	.0	399	.0	1.4
5	.0	.0	.0	.0	.3	.8	1.0	.6	.1	.0	.0	777	.0	2.8
4	.0	.0	.0	.1	.6	1.4	1.4	.7	.1	.0	.0	1191	.1	4.2
3	.0	.0	.0	.1	.9	2.0	1.7	.6	.1	.0	.0	1494	.1	5.3
2	.0	.0	.0	.3	1.9	3.7	2.7	.9	.1	.0	.0	2635	.1	9.5
1	.0	.0	.0	.4	2.7	5.2	3.4	.8	.0	.0	.0	3487	.2	12.4
0	.0	.0	.0	.8	4.6	6.6	4.2	.9	.0	.0	.0	4744	.3	16.8
-1	.0	.0	.0	.8	3.7	4.8	3.4	.4	.0	.0	.0	3631	.2	12.9
-2	.0	.0	.1	1.0	3.7	4.0	2.3	.2	.0	.0	.0	3156	.2	11.2
-3	.0	.0	.1	.8	2.4	2.3	1.1	.1	.0	.0	.0	1899	.1	6.7
-4	.0	.0	.1	.9	1.9	1.6	.6	.0	.0	.0	.0	1411	.1	5.0
-5	.0	.0	.1	.7	1.2	1.0	.3	.0	.0	.0	.0	904	.0	3.2
-6	.0	.0	.1	.4	.7	.3	.1	.0	.0	.0	.0	489	.0	1.7
-7/-8	.0	.0	.1	.3	.6	.4	.1	.0	.0	.0	.0	466	.0	1.7
-9/-10	.0	.0	.1	.3	.4	.1	.0	.0	.0	.0	.0	192	.0	.3
-11/-13	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	69	.0	.2
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	.0
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
TOTAL												27775		
PCT	.0	.1	.9	7.0	25.6	35.2	23.8	6.4	.9	.2	.0	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.5	.0	.0	.0	.0	.8	41	.4	1.1	.1	.0	.0	.0	1.4
1-2	.1	2.2	.8	.0	.0	.0	3.2	1-2	.4	6.1	2.9	.0	.0	.0	9.4
3-4	.0	1.0	2.1	.1	.0	.0	3.3	3-4	.1	2.8	6.8	.3	.0	.0	10.1
5-6	.0	.2	1.8	.2	.0	.0	1.9	5-6	.0	.3	4.6	.6	.0	.0	5.7
7	.0	.0	.3	.2	.0	.0	.9	7	.0	.1	1.7	.8	.0	.0	2.6
8-9	.0	.0	.2	.2	.0	.0	.4	8-9	.0	.1	.3	.3	.0	.0	1.1
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.1	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.1	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	5.3	.9	.0	.0	10.6	TOT PCT	.9	10.7	16.7	2.6	.1	.0	31.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.0	.1	.0	.0	.0	1.4	41	.3	.6	.0	.0	.0	.0	1.0
1-2	.3	2.2	1.5	.0	.0	.0	7.1	1-2	.3	3.7	1.0	.0	.0	.0	5.1
3-4	.1	2.6	3.6	.1	.0	.0	6.1	3-4	.1	1.8	1.8	.0	.0	.0	3.7
5-6	.0	.3	1.9	.2	.0	.0	2.6	5-6	.0	.4	1.2	.1	.0	.0	1.7
7	.0	.1	.7	.2	.0	.0	1.0	7	.0	.1	.4	.1	.0	.0	.6
8-9	.0	.0	.1	.1	.0	.0	.2	8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2	10-11	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.3	7.8	.6	.0	.0	18.5	TOT PCT	.7	6.7	4.7	.2	.0	.0	12.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

AREA 0009 RIO DE JANEIRO
22.7S 41.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.5	.9	.0	.0	.0		.7	.2	.4	.7	.0	.0	.0		.6
1-2	.3	2.7	.9	.0	.0	.0		3.9	.1	2.2	.7	.0	.0	.0		3.0
3-4	.1	1.4	1.5	.1	.0	.0		3.1	.*	1.0	1.3	.1	.0	.0		2.4
5-6	.0	.2	1.0	.1	.0	.0		1.4	.0	.2	.8	.2	.0	.0		1.3
7	.0	.1	.5	.1	.0	.0		.7	.0	.*	.3	.2	.0	.0		.5
8-9	.0	.*	.1	.1	.*	.0		.1	.0	.*	.1	.1	.*	.0		.2
10-11	.0	.0	.1	.1	.0	.0		.1	.0	.*	.*	.1	.*	.0		.1
12	.0	.0	.0	.*	.0	.0		.*	.0	.0	.*	.*	.*	.0		.1
13-16	.0	.0	.0	.*	.0	.0		.*	.0	.0	.*	.*	.*	.0		.*
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.6	5.0	4.0	.8	.*	.0		10.0	.3	3.8	3.3	.7	.*	.0		8.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.1	.3	.0	.0	.0	.0		.4	.1	.2	.*	.0	.0	.0		.3	
1-2	.1	1.2	.3	.0	.0	.0		1.6	.1	.8	.2	.0	.0	.0		1.1	
3-4	.0	.6	.4	.1	.0	.0		1.1	.0	.4	.3	.*	.0	.0		.4	
5-6	.0	.1	.1	.*	.0	.0		.3	.0	.*	.2	.*	.0	.0		.3	
7	.0	.0	.1	.1	.*	.0		.2	.0	.*	.1	.*	.0	.0		.1	
8-9	.0	.0	.*	.*	.*	.0		.*	.0	.0	.*	.*	.0	.0		.*	
10-11	.0	.0	.*	.*	.*	.0		.*	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.*	.0		.*	.0	.0	.0	.0	.0	.0		.*	
13-16	.0	.*	.0	.*	.0	.0		.*	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.2	1.0	.2	.*	.0		3.7	.2	1.3	.7	.*	.0	.0		2.4	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.7	4.7	.2	.0	.0	.0	10.6	
1-2	2.3	24.0	8.1	.0	.0	.0	34.8	
3-4	.3	11.4	17.3	.9	.0	.0	29.9	
5-6	.*	2.1	11.2	1.8	.*	.0	14.8	
7	.*	.4	4.2	1.8	.*	.0	6.6	
8-9	.*	.1	1.1	1.0	.1	.0	2.3	
10-11	.0	.1	.3	.4	.*	.0	.9	
12	.0	.*	.1	.1	.*	.0	.2	
13-16	.0	.*	.1	.1	.*	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	42.7	42.7	5.8	.2	.0	100.0	10927

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	13.6	15.3	6.0	2.1	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8399	3
6-7	.1	2.1	9.6	10.3	4.3	1.6	.6	.2	.1	.*	.*	.*	.0	.0	.0	.0	.0	.0	.0	6041	3
8-9	.*	.3	2.0	3.3	3.2	1.6	.3	.2	.2	.*	.0	.0	.*	.0	.0	.0	.0	.0	.0	2416	6
10-11	.0	.6	.3	.6	.8	.6	.4	.2	.1	.*	.0	.0	.0	.*	.0	.0	.0	.0	.0	927	6
12-13	.0	.0	.5	.2	.3	.2	.1	.1	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	330	6
>13	.0	.0	.0	.2	.2	.1	.1	.1	.1	.0	.*	.*	.*	.*	.0	.0	.0	.0	.0	121	9
INDET	3.3	2.4	3.4	1.7	1.2	.4	.2	.1	.*	.*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2644	3
TOTAL																				2077	4
PCT	6.0	19.1	31.3	22.3	12.3	3.1	2.2	.9	.6	.1	.*	.*	.*	.*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1854-1974

TABLE 20

AREA 0009 RIO DE JANEIRO
22.75 41.44

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0
85/86	.1	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	96	.1
83/84	.9	2.0	2.3	1.0	.1	.0	.0	.0	.0	.0	.0	.1	608	.5
81/82	7.0	13.4	15.4	8.6	1.4	.4	.1	.1	.1	.1	.3	1.3	4309	3.9
79/80	17.9	24.8	27.9	20.8	6.7	1.4	.4	.2	.3	.3	1.7	6.6	10418	9.0
77/78	27.1	29.4	27.8	27.6	19.0	6.7	1.6	1.0	1.2	2.1	6.9	19.3	13730	13.6
75/76	22.5	16.4	15.7	23.6	27.6	18.9	10.2	4.7	4.8	9.5	19.7	27.7	19398	16.8
73/74	14.4	9.0	7.3	12.7	27.3	32.4	25.7	19.5	19.5	24.8	32.1	25.7	24460	21.1
71/72	5.6	3.8	1.8	3.3	12.7	24.3	27.9	28.6	26.4	27.4	22.9	12.0	19273	16.6
69/70	2.7	1.8	.8	1.4	3.7	11.2	19.8	25.9	25.8	20.4	10.2	4.3	12488	10.8
67/68	1.3	.8	.4	.4	.9	3.4	9.8	13.4	14.8	10.3	4.0	1.7	5919	5.1
65/66	.3	.2	.1	.2	.3	.7	3.2	4.5	5.0	3.3	1.2	.6	1896	1.6
63/64	.2	.2	.0	.0	.1	.4	.9	1.6	1.6	1.2	.6	.2	672	.6
61/62	.0	.1	.1	.0	.1	.2	.3	.3	.3	.3	.2	.0	174	.2
59/60	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	72	.1
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8738	8942	9581	9905	10480	10513	10495	9721	9181	8704	8551	8930	118738	100.0
MEAN	76.3	77.3	77.9	76.9	74.8	72.9	71.4	70.6	70.6	71.3	73.0	74.7	73.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL Obs
JAN	1012	1013	1012	1012	1013	1013	1012	1012	1012	5376
FEB	1013	1013	1012	1013	1013	1013	1012	1012	1013	5461
MAR	1014	1014	1013	1014	1014	1014	1013	1014	1014	5662
APR	1016	1016	1015	1015	1016	1016	1015	1016	1016	6197
MAY	1016	1016	1017	1017	1019	1018	1017	1017	1018	6297
JUN	1019	1019	1019	1019	1020	1020	1019	1019	1019	6209
JUL	1021	1021	1020	1020	1022	1022	1020	1020	1021	6566
AUG	1020	1020	1019	1019	1021	1020	1019	1018	1020	5794
SEP	1018	1018	1017	1018	1019	1018	1017	1017	1018	5336
OCT	1016	1016	1015	1014	1017	1016	1015	1014	1015	5531
NOV	1014	1014	1013	1013	1014	1014	1013	1012	1013	5343
DEC	1012	1012	1011	1012	1013	1013	1012	1011	1012	5060
ANN	1016	1016	1015	1015	1017	1016	1015	1015	1016	60714
OBS	12409	6883	13302	1556	12227	8634	11491	1438		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	1002	1006	1010	1013	1015	1018	1019	1024
FEB	1001	1004	1007	1010	1013	1015	1018	1020	1023
MAR	1002	1009	1008	1011	1014	1016	1018	1020	1027
APR	1000	1006	1009	1013	1016	1018	1021	1024	1031
MAY	1000	1008	1011	1015	1018	1020	1024	1026	1031
JUN	1002	1009	1013	1017	1019	1022	1025	1028	1034
JUL	1002	1010	1014	1018	1021	1024	1028	1030	1034
AUG	1000	1009	1013	1017	1020	1023	1026	1029	1037
SEP	1001	1008	1011	1015	1018	1021	1025	1027	1033
OCT	1000	1004	1008	1013	1016	1018	1023	1025	1033
NOV	997	1003	1006	1011	1013	1016	1020	1023	1030
DEC	995	1001	1005	1009	1012	1015	1019	1021	1030

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	92	TOT	M FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.2	.0	3	.0	.3
9/10	.0	.0	.0	.1	.0	.0	.6	.1	.1	14	.0	.9
7/8	.0	.0	.0	.3	.4	.6	.3	.1	.0	31	.0	2.0
6	.0	.0	.0	.3	.4	.9	.3	.0	.0	30	.1	1.9
5	.0	.0	.0	.5	.8	1.2	.4	.0	.0	46	.0	2.9
4	.0	.0	.0	.3	1.7	1.9	.1	.0	.0	33	.1	3.3
3	.0	.0	.1	.7	3.3	1.9	.0	.0	.0	91	.0	5.8
2	.0	.0	.1	1.7	5.3	1.6	.0	.0	.0	140	.0	9.0
1	.0	.0	.1	2.1	7.7	1.0	.0	.0	.0	170	.1	10.8
0	.0	.0	.3	8.0	10.8	1.0	.0	.0	.0	213	.1	20.0
-1	.0	.0	.6	8.1	6.2	.3	.0	.0	.0	238	.0	15.3
-2	.0	.1	.4	6.5	2.8	.1	.0	.0	.0	161	.0	10.3
-3	.1	.1	1.9	4.7	.8	.1	.0	.0	.0	120	.0	7.7
-4	.0	.0	1.4	2.8	.4	.1	.0	.0	.0	74	.0	4.7
-5	.0	.1	.6	1.0	.2	.1	.0	.0	.0	39	.0	2.1
-6	.0	.1	.6	.4	.1	.0	.0	.0	.0	17	.0	1.1
-7/-8	.0	.2	.6	.3	.0	.0	.0	.0	.0	17	.0	1.1
-9/-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.4
TOTAL	1	10	112	397	647	134	32	6	1	1560	.4	1356
PCT	.1	.6	7.2	38.3	41.5	9.9	2.1	.4	.1	100.0	.4	99.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.7	.0	.0	.0	.0	.7	01	.6	1.1	.0	.0	.0	.0	1.7
1-2	.0	2.9	2.3	.0	.0	.0	5.4	1-2	.0	8.1	3.1	.0	.0	.0	11.9
3-4	.0	.4	3.2	.0	.0	.0	3.9	3-4	.0	3.0	4.2	.0	.0	.0	7.2
5-6	.0	.4	1.6	.2	.0	.0	2.2	5-6	.0	.4	1.9	.2	.0	.0	2.5
7	.0	.2	.3	.8	.2	.0	1.4	7	.0	.1	.8	.3	.1	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	7.6	.9	.2	.0	13.2	TOT PCT	.6	12.7	10.1	.3	.1	.0	23.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.4	.6	.0	.0	.0	.0	.9	01	.7	1.2	.0	.0	.0	.0	1.8
1-2	.0	3.1	1.4	.0	.0	.0	4.3	1-2	.0	3.1	.1	.0	.0	.0	3.2
3-4	.0	2.4	2.3	.0	.0	.0	4.9	3-4	.0	3.1	2.3	.0	.0	.0	5.4
5-6	.0	.6	1.0	.0	.0	.0	1.6	5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.8	.2	.0	.0	1.0	7	.0	.0	.4	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.7	6.0	.2	.0	.0	15.3	TOT PCT	.7	7.4	5.1	.4	.0	.0	13.5

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-23	24-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.0	6.2	43.9	41.3	5.8	.5	.1	11.2	100.0	1866
0600	2.6	7.2	47.2	37.6	5.0	.4	.0	10.5	100.0	1119
1200	2.6	8.3	44.8	37.5	6.2	.3	.1	10.7	100.0	1986
1800	1.7	9.4	44.8	42.1	5.7	.2	.0	11.2	100.0	1203
TOT	1.9	4.27	27.77	24.47	5.7	.25	.2	10.9		6174
PCT	2.3	6.9	43.0	39.6	5.8	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN CLOUD COVER
N	4.0	2.6	3.5	2.4		4.3
NE	9.6	5.1	7.8	4.3		4.1
E	5.3	9.2	5.5	3.6		4.5
SE	2.8	3.8	4.9	3.7		3.0
S	7.7	2.7	4.8	3.1		3.0
SW	1.1	1.4	1.8	1.3		4.9
W	.8	.3	.5	.3		3.7
NW	1.0	.4	2.3	1.1		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.4	.3	.3		3.6
TOT OBS	330	230	371	243	1188	4.5
TOT PCT	28.3	20.0	31.2	20.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.01	.01	.0	.4	1.0	.8	.3	.2	.0	.2	9.3	
.0	.0	.3	1.2	2.8	.8	.9	.2	.1	.4	20.1	
.0	.1	.3	1.4	1.9	1.3	.9	.0	.1	.1	11.1	
.1	.0	.3	1.1	2.3	.3	.7	.4	.0	.1	9.3	
.0	.0	.1	2.0	2.3	.8	.3	.1	.0	.0	7.7	
.1	.0	.2	.6	.6	.2	.9	.2	.0	.1	3.3	
.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	1.3	
.0	.0	.1	.6	.4	.4	.3	.2	.0	.1	2.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.1	.3	.0	.0	.1	.0	1.3	
.3	.2	.21	.89	.138	.66	.48	.13	.3	.11	79.2	
.3	.2	1.8	7.9	11.6	3.6	4.0	1.3	.3	.9	66.7	1188
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >3	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >3000	= OR >0
= OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
= OR >5000	1.8	2.4	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	4.8	6.1	6.3	6.3	6.3	6.3	6.3	6.3
= OR >2000	9.1	11.4	11.7	11.8	11.8	11.8	11.8	11.8
= OR >1000	17.9	22.8	23.1	23.4	23.4	23.3	23.3	23.3
= OR >600	23.3	29.7	30.6	31.0	31.0	31.1	31.1	31.1
= OR >300	24.9	31.3	32.3	32.7	32.7	32.8	32.8	32.8
= OR >150	25.0	31.9	32.3	32.9	32.9	32.9	32.9	32.9
= OR >0	25.1	31.7	32.7	33.1	33.1	33.2	33.2	33.2
TOTAL	303	343	397	402	402	403	403	403

TOTAL NUMBER OF OBS: 1214

PCT FREQ NM <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
11.2	10.7	10.9	13.7	7.3	5.8	7.5	7.7	12.8	.2	1322

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971

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AREA 0010 FLORIANOPOLIS
26.63 45.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	.0	.1	.1	.0	*	.0	.0	.7	
	NO PCP	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	*	.0	.0	.1	.1	.0	*	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	*	.1	.1	.2	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.2	.0	*	.1	*	.0	.0	.0	.0	.3	
	TOT %	*	.2	.1	.2	.2	*	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.2	*	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.2	.4	.3	.1	.2	*	.1	.2	.0	.0	1.3	
	TOT %	.2	.4	.3	.1	.5	.2	.1	.2	.0	.0	2.0	
5<10	PCP	.4	.3	.5	1.1	.5	.3	.1	.2	.0	.0	3.5	
	NO PCP	2.0	3.3	2.3	3.3	2.0	1.3	.3	.8	.0	.3	17.4	
	TOT %	2.3	3.6	2.8	4.4	2.5	1.3	.4	1.0	.0	.3	20.9	
10+	PCP	.2	.3	.5	.3	.3	.1	.0	.1	.0	.0	1.7	
	NO PCP	8.9	20.8	13.0	11.7	9.8	4.0	1.4	3.4	.0	1.3	74.2	
	TOT %	9.1	21.1	13.4	11.9	10.1	4.1	1.4	3.4	.0	1.3	75.9	
TOT OBS													1652
TOT PCT													11.9 27.3 16.8 16.7 13.3 9.9 1.9 4.6 .0 1.6 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	4-10	*	*	*	*	.0	.0	.0	*	.0	.0	.1	
	11-21	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	.0	*	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	*	*	*	*	*	.0	.0	.0	.0	.2	
	11-21	*	.1	.1	.1	.1	*	.0	.0	.0	.0	.3	
	22+	.0	*	*	.1	.1	*	.0	.0	.0	.0	.1	
	TOT %	*	.2	.2	.2	.2	.1	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.1	*	*	.0	.0	*	.1	
	4-10	.1	.1	.1	.2	.2	*	.0	.1	.0	.0	.7	
	11-21	.1	.3	.3	.1	.2	.1	.1	*	.0	.0	1.3	
	22+	.1	.1	.1	*	*	*	.0	.0	.0	.0	.4	
	TOT %	.3	.3	.3	.4	.3	.1	.1	.1	.0	*	2.3	
5<10	0-3	.2	.2	.1	.2	*	.1	.0	.1	.0	.3	1.2	
	4-10	.9	1.9	.8	.8	.6	.4	.2	.7	.0	.0	6.3	
	11-21	1.2	2.2	.9	1.8	1.1	.3	.1	.2	.0	.0	7.9	
	22+	.1	.4	.2	.4	.2	.1	.0	.0	.0	.0	1.4	
	TOT %	2.4	4.7	2.0	3.1	2.0	1.1	.2	.9	.0	.3	16.8	
10+	0-3	.3	.6	.9	.8	.4	.4	.2	.3	.0	1.1	3.3	
	4-10	4.7	10.4	7.8	7.3	3.9	1.8	1.0	2.1	.0	.0	39.3	
	11-21	4.3	11.3	4.4	3.1	4.4	1.3	.3	.9	.0	.0	32.0	
	22+	.3	.6	.3	.7	.3	.3	*	*	.0	.0	3.2	
	TOT %	9.6	23.0	13.4	14.1	9.4	4.0	1.5	3.3	.0	1.1	79.7	
TOT OBS													3427
TOT PCT													12.6 26.3 16.2 17.8 12.1 3.4 1.8 4.4 .0 1.4 100.0

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PERIOD: (PRIMARY) 1914-1971
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AREL 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.3	.3	2.0	8.2	11.9	4.4	3.7	1.0	.3	.7	33.2	66.8	295
06009	.4	.0	2.2	7.6	14.5	4.4	2.9	.7	.4	1.8	34.9	65.1	275
12015	.3	.3	1.5	7.1	8.3	6.8	5.0	1.8	.3	.6	32.0	68.0	338
18021	.0	.0	1.1	5.9	10.5	5.1	3.2	1.1	.3	.8	28.0	72.0	371
TOT	3	2	21	92	142	67	48	13	4	12	406	873	1279
PCT	.2	.2	1.6	7.2	11.1	5.2	3.8	1.2	.3	.9	31.7	68.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.1	.0	.9	2.5	18.5	78.0	985
06009	.4	.0	.4	2.7	16.4	80.0	679
12015	.2	.0	.7	2.8	18.0	78.4	1047
18021	.0	.0	1.2	1.7	14.2	82.9	767
TOT	6	0	28	83	590	2763	3474
PCT	.2	.0	.8	2.4	17.0	79.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.4	2.9	13.6	22.3	64.1	273
06009	.4	2.7	11.9	23.0	63.1	260
12015	.3	2.5	11.1	21.9	67.0	324
18021	.0	1.1	7.8	21.3	70.9	357
TOT	3	27	132	273	809	1214
PCT	.2	2.2	10.9	22.5	66.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.2	.0	.1	.0	4	.3
85/89	.0	.0	.0	.2	.8	.8	.5	.0	30	2.3
80/84	.0	.1	.0	.5	1.1	4.3	7.0	2.1	193	14.9
75/79	.0	.0	.0	.5	3.7	16.0	24.6	17.2	879	62.0
70/74	.0	.0	.1	.8	3.9	5.1	5.8	4.2	239	19.3
65/69	.0	.0	.0	.1	.2	.2	.3	.2	11	.8
60/64	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	1	24	122	343	301	311	1303	100.0
PCT	.0	.1	.1	2.0	9.3	26.3	38.4	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.2	.0	.0	.0	.0	.1	.1	.0	.0
85/89	.5	1.0	.3	.1	.3	.2	.0	.0	.0	.0
80/84	2.2	5.7	2.2	1.6	.9	.4	.2	1.3	.0	.3
75/79	8.0	16.8	11.2	9.1	7.7	4.3	1.2	2.9	.0	.8
70/74	1.0	3.4	3.2	5.1	4.3	1.4	.2	.8	.0	.2
65/69	.1	.0	.0	.1	.5	.2	.1	.0	.0	.0
60/64	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
TOTAL	11.7	27.1	16.9	15.9	13.7	6.3	1.8	5.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	82	80	76	71	69	64	76.0	1870
06009	84	81	79	75	71	68	63	75.1	1129
12015	93	85	83	77	72	69	62	77.4	1944
18021	92	88	84	78	73	70	65	78.3	1160
TOT	93	85	82	77	72	69	62	76.7	6103

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.3	6.6	20.7	39.8	31.4	84	334		
06009	.0	1.0	5.1	18.8	27.2	37.9	89	293		
12015	.0	2.7	8.1	29.3	42.8	17.1	81	369		
18021	.0	2.9	16.8	33.8	34.1	12.4	78	346		
TOT	0	28	125	349	518	322	82	1342		

JANUARY

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1863-1971AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	M FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0	.2	.0	5	.0	.3
9/10	.0	.0	.0	.1	.0	.0	.6	.1	.1	14	.0	.9
7/8	.0	.0	.0	.3	.4	.6	.3	.1	.0	31	.0	2.0
6	.0	.0	.0	.3	.4	.9	.3	.0	.0	30	.1	1.9
5	.0	.0	.0	.5	.8	1.2	.4	.0	.0	46	.0	2.9
4	.0	.0	.0	.3	1.7	1.3	.1	.0	.0	53	.1	3.3
3	.0	.0	.1	.7	3.3	1.5	.0	.0	.0	91	.0	5.8
2	.0	.0	.1	1.7	3.5	1.6	.0	.0	.0	140	.0	9.0
1	.0	.0	.1	2.1	7.7	1.0	.0	.0	.0	170	.1	10.8
0	.0	.0	.3	8.0	10.8	1.0	.0	.0	.0	213	.1	20.0
-1	.0	.0	.6	8.1	6.2	.3	.0	.0	.0	238	.0	18.3
-2	.0	.1	.4	6.9	2.8	.1	.0	.0	.0	161	.0	10.3
-3	.1	.1	1.9	4.7	.8	.1	.0	.0	.0	120	.0	7.7
-4	.0	.0	1.4	2.8	.4	.1	.0	.0	.0	74	.0	4.7
-5	.0	.1	.6	1.0	.2	.1	.0	.0	.0	39	.0	2.1
-6	.0	.1	.6	.4	.1	.0	.0	.0	.0	17	.0	1.1
-7/-8	.0	.2	.6	.3	.0	.0	.0	.0	.0	17	.0	1.1
-9/-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	6	.0	.4
TOTAL	1	10	112	597	647	134	32	6	1	1560	4	1356
PCT	.1	.6	7.2	38.3	41.5	9.9	2.1	.4	.1	100.0	.4	99.7

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.7	.0	.0	.0	.0	.7	01	.6	1.1	.0	.0	.0	.0	1.7
1-2	.0	2.9	2.3	.0	.0	.0	5.4	1-2	.0	8.1	3.1	.0	.0	.0	11.9
3-4	.0	.4	3.2	.0	.0	.0	3.9	3-4	.0	3.0	4.2	.0	.0	.0	7.2
5-6	.0	.4	1.6	.2	.0	.0	2.2	5-6	.0	.4	1.9	.2	.0	.0	2.5
7	.0	.2	.3	.8	.2	.0	1.4	7	.0	.1	.8	.3	.1	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	7.6	.9	.2	.0	13.2	TOT PCT	.6	12.7	10.1	.3	.1	.0	23.9

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.4	.6	.0	.0	.0	.0	.9	01	.7	1.2	.0	.0	.0	.0	1.8
1-2	.0	3.1	1.4	.0	.0	.0	4.5	1-2	.0	3.1	.1	.0	.0	.0	3.2
3-4	.0	2.4	2.3	.0	.0	.0	4.9	3-4	.0	3.1	2.3	.0	.0	.0	5.4
5-6	.0	.6	1.0	.0	.0	.0	1.6	5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.8	.8	.2	.0	.0	1.0	7	.0	.0	.4	.4	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.7	4.0	.2	.0	.0	13.3	TOT PCT	.7	7.4	5.1	.4	.0	.0	13.5

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0010 FLORIANOPOLIS
28.85 45.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.2	1.4	.0	.0	.0	3.6	.0	1.1	.2	.0	.0	.0	1.2
3-4	.0	2.3	3.0	.2	.0	.0	5.6	.0	.9	1.5	.1	.0	.0	2.5
5-6	.0	.2	3.3	.8	.0	.0	4.0	.0	.1	.9	.4	.0	.0	1.0
7	.0	.0	1.3	.2	.0	.0	1.7	.0	.0	.3	.1	.0	.0	.9
8-9	.0	.0	.7	.9	.0	.0	1.6	.0	.0	.1	.3	.0	.0	.8
10-11	.0	.0	.4	.6	.2	.0	1.1	.0	.0	.0	.1	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.2	10.2	2.4	.2	.0	17.9	.0	2.3	3.1	1.1	.1	.0	6.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.4	.3	.0	.0	.0	.7	.0	.9	.3	.0	.0	.0	1.3	
3-4	.0	.4	.6	.0	.0	.0	1.0	.0	.6	.6	.0	.0	.0	1.3	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.2	.4	.1	.0	.0	.7	
7	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	1.1	.0	.0	.0	2.0	.0	2.4	1.3	.1	.0	.0	3.9	96.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	4.9	.0	.0	.0	.0	10.3	
1-2	.0	23.7	9.3	.0	.0	.0	33.0	
3-4	.0	13.4	17.6	.2	.0	.0	31.2	
5-6	.2	1.8	11.1	1.0	.0	.0	14.2	
7	.0	.6	4.0	2.2	.2	.0	7.1	
8-9	.0	.0	1.2	1.4	.0	.0	2.6	
10-11	.0	.0	.6	.4	.2	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.2	.0	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	44.3	44.1	3.8	.4	.0	100.0	494

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.6	14.6	6.3	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	369	3
6-7	.2	1.9	7.8	10.6	6.1	1.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	299	3
8-9	.0	.3	4.3	4.3	3.3	1.3	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	6
10-11	.0	.3	.4	1.1	.6	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
12-13	.0	.0	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
15-19	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDPT	3.7	3.6	4.3	2.3	.8	1.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	3
TOTAL	3.8	17.7	32.9	26.0	12.9	3.7	1.9	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037	4
PCT	3.3	17.1	31.7	23.1	12.4	3.3	1.8	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

 PERIOD: (PRIMARY) 1914-1973
 (OVER-ALL) 1857-1973

 AREA 0010 FLORIANOPOLIS
 26.65 45.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
N	2.4	.5	.5	.0	.0	.0	.0	3.4	2.8	5.7	.5	.0	.8	.0	87.4
NE	1.8	.3	.6	.0	.0	.0	.0	2.7	1.3	4.1	.2	.0	.0	.0	91.6
E	1.8	3.1	1.6	.0	.0	.0	.0	6.5	2.5	3.8	.8	.0	.0	.0	86.4
SE	2.3	4.7	1.0	.0	.0	.0	.0	8.0	3.8	2.8	.9	.0	.0	.0	84.3
S	3.6	3.7	1.4	.0	.0	.0	.0	8.7	3.6	2.9	.0	.0	.4	.0	84.8
SW	6.4	3.9	2.2	.0	.0	.0	.0	12.1	4.6	2.9	.0	.9	.0	.0	79.6
W	3.3	.0	7.1	.0	.0	.0	.0	10.6	3.3	3.9	.0	.0	.0	.0	81.8
NW	5.2	2.3	.0	.0	.0	.0	.0	7.3	6.6	2.3	.0	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	6.9	.0	.0	.0	.0	.0	6.9	.0	6.9	3.4	.0	.0	.0	82.8
TOT PCT	2.7	2.2	1.1	.0	.0	.0	.0	6.1	2.9	3.8	.4	.1	.2	.0	86.8
TOT OBS:	1702														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
06003	2.1	2.8	1.8	.0	.0	.0	.0	6.7	3.4	10.8	.2	.0	.2	.0	79.1
06009	3.6	2.3	.5	.0	.0	.0	.0	6.3	4.4	4.9	.3	.0	.3	.0	83.9
12019	2.2	1.6	.8	.0	.0	.0	.0	4.6	1.8	.2	.6	.2	.0	.0	92.3
18021	3.3	2.1	1.2	.0	.0	.0	.0	6.3	2.1	.0	.3	.0	.2	.0	90.7
TOT PCT	2.7	2.2	1.1	.0	.0	.0	.0	6.0	2.9	3.8	.4	.1	.2	.0	86.8
TOT OBS:	1746														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.9	6.2	4.7	.9	.0	.0		12.7	11.2		8.2	10.6	14.8	14.4	13.2	14.6	12.4	12.3
NE	1.3	12.0	11.1	2.0	.0	.0		26.4	11.7		28.4	26.8	26.4	21.1	24.8	25.3	26.9	30.9
E	1.0	8.6	9.3	.5	.0	.0		19.4	10.1		19.6	19.3	14.9	14.4	11.8	14.3	13.6	16.0
SE	1.2	8.8	6.3	.8	.0	.0		16.8	10.7		18.2	18.8	16.1	18.2	15.8	15.3	17.4	13.6
S	1.1	4.3	4.7	1.0	.1	.0		12.3	11.4		13.1	11.4	10.1	23.6	10.8	11.3	13.6	17.3
SW	.8	9.6	1.8	.4	.0	.0		6.3	9.7		3.3	3.9	6.3	3.9	9.2	8.0	9.9	4.1
W	.4	1.8	.4	.0	.0	.0		2.3	7.1		1.9	2.2	2.6	3.9	3.4	2.8	2.1	.0
NW	.6	2.9	1.2	.1	.0	.0		4.7	8.4		3.0	3.8	3.6	2.2	3.9	6.0	4.2	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.0	2.7	3.3	2.2	3.1	2.2	1.9	1.8
TOT OBS	995	2978	2160	343	9	0	6083		10.3		1089	737	1071	43	1139	859	1094	33
TOT PCT	9.8	48.9	39.8	3.6	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.4	6.3	2.6	.2	.0			12.7	11.2		9.2	14.7	14.9	12.4
NE	3.7	14.7	3.6	.4	.0			26.4	11.7		27.8	24.2	23.0	27.1
E	4.3	9.1	1.9	.1	.0			13.4	10.1		19.3	14.9	12.9	13.7
SE	4.3	9.7	2.6	.2	.0			16.8	10.7		18.4	16.0	13.6	17.2
S	3.3	6.3	2.3	.3	.0			12.3	11.4		12.6	10.7	11.1	15.7
SW	2.4	3.1	1.0	.1	.0			6.3	9.7		4.9	6.2	6.7	5.8
W	1.4	1.0	.1	.0	.0			2.3	7.1		2.0	2.6	3.2	2.0
NW	2.0	2.4	.3	.0	.0			4.7	8.4		3.9	3.4	3.9	4.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.3							2.3	.0		2.3	3.2	2.7	1.9
TOT OBS	1780	3213	1011	80	1	6083			10.3		1822	1116	1998	1149
TOT PCT	29.3	52.8	16.6	1.3	.0			100.0			100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973

AREA 0010 FLORIANOPOLIS
26.65 53.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	2.3	6.0	48.5	37.6	5.5	.1	.0	10.7	100.0	1822	
0600Z	3.2	7.5	50.0	33.8	5.2	.3	.0	10.1	100.0	1116	
1201Z	2.7	8.9	48.4	33.7	6.3	.1	.0	10.4	100.0	1998	
1802Z	1.9	6.2	49.6	37.0	5.1	.2	.0	10.7	100.0	1149	
TOT	194	441	2978	2100	344	.7	0	10.3		6085	
PCT	2.3	7.2	48.9	35.5	5.4	.1	.0	100.0			

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.9	3.1	2.9	2.2		3.9
NE	11.9	7.0	6.8	3.8		3.7
E	3.9	2.4	4.1	1.8		4.3
SE	2.1	3.0	6.2	3.6		3.2
S	3.2	2.9	4.3	4.5		4.9
SW	1.5	1.8	1.9	1.7		4.7
W	.6	.9	.8	.7		3.0
NW	1.1	1.3	1.1	1.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	.5	.4	.8	.7		4.4
TOT OBS	392	291	374	239	1296	4.4
TOT PCT	30.2	22.9	28.9	18.4	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM 15/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.2	.8	1.0	.4	.3	.1	.1	.1	10.0	
NE	.0	.0	.1	1.5	2.2	1.4	.9	.3	.0	.3	22.8	
E	.1	.0	.2	.7	1.0	1.3	.2	.3	.0	.0	8.1	
SE	.1	.2	.4	1.6	2.7	1.2	.6	.2	.0	.0	8.6	
S	.0	.1	.1	1.3	2.0	1.0	.8	.2	.1	.1	8.2	
SW	.0	.0	.0	.3	1.1	.6	.1	.1	.0	.1	4.9	
W	.1	.0	.0	.2	.4	.1	.2	.1	.0	.0	1.6	
NW	.1	.0	.0	.4	.4	.3	.2	.0	.0	.1	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.2	.2	.0	.0	.0	.0	.1	1.2	
TOT OBS	6	3	14	89	143	85	42	16	3	10	885	1296
TOT PCT	.5	.2	1.1	6.9	11.0	6.6	3.2	1.2	.2	.8	68.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	CEILING (FEET)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR								
>300	.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>4000	1.5	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>5500	4.3	5.5	5.7	5.7	5.7	5.7	5.7	5.7
>2000	9.3	11.6	11.9	12.0	12.0	12.1	12.1	12.1
>1000	17.1	21.4	22.0	22.4	22.5	22.6	22.6	22.6
>600	22.2	28.0	28.9	29.4	29.5	29.5	29.5	29.5
>300	22.6	29.1	30.1	30.6	30.7	30.8	30.8	30.8
>150	22.7	29.3	30.3	30.8	30.9	31.0	31.0	31.0
>0	22.7	29.3	30.6	31.3	31.4	31.4	31.4	31.4
TOTAL	297	385	400	409	410	411	411	411

TOTAL NUMBER OF OBS: 1307

PCT FREQ NM <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL
											OBS
	9.3	16.7	18.0	13.8	9.3	5.4	7.4	7.3	12.0	.4	1423

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973AREA 0010 FLORIANOPOLIS
26.05 45.7M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.0	.0	.0	.6	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
1<2	PCP	.0	.1	.1	.1	*	*	.0	.0	.0	.1	.4	.4
	NO PCP	*	.1	.0	.1	.0	.0	.1	.1	.0	.0	.0	.4
	TOT %	*	.2	.1	.2	*	*	.1	.1	.0	.1	.4	.8
2<5	PCP	*	.1	.2	.1	.4	.1	.0	.1	.0	.0	1.0	1.0
	NO PCP	.3	.3	.1	.1	.1	.1	.1	.1	.0	.0	1.2	1.2
	TOT %	.4	.4	.3	.2	.5	.1	.1	.2	.0	.0	2.2	2.2
5<10	PCP	.2	.2	.4	.9	.4	.4	.1	.2	.0	.1	2.8	2.8
	NO PCP	2.3	4.3	2.3	2.7	1.8	.8	.8	1.1	.0	.2	16.0	16.0
	TOT %	2.7	4.5	2.7	3.6	1.9	1.2	.7	1.3	.0	.2	18.8	18.8
10+	PCP	.2	.4	.1	.1	.4	.3	.1	.1	.0	.0	1.8	1.8
	NO PCP	9.3	23.9	9.7	11.0	10.9	3.0	1.5	3.5	.0	1.4	76.2	76.2
	TOT %	9.5	24.3	9.8	11.1	11.4	3.4	1.7	3.6	.0	1.4	78.0	78.0
TOT OBS													
TOT PCT													
		12.6	29.6	12.9	15.1	13.6	6.7	2.3	3.1	.0	1.7	100.0	1999

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	*	.0	.0	.0	.0	.0	.0	*	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	*	.1	*	.1	*	*	*	.1	.0	.0	.4	.4
	22+	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0
	TOT %	*	.1	*	.1	*	*	*	.1	.0	*	.4	.4
2<5	0-3	.0	.0	.0	.0	*	*	.0	*	.0	*	.1	.1
	4-10	*	.1	.2	.1	.1	*	.0	.1	.0	.0	.7	.7
	11-21	.3	.2	.1	.2	.2	*	*	.1	.0	.0	1.2	1.2
	22+	*	*	.1	.1	.1	*	.0	.0	.0	.0	.4	.4
	TOT %	.4	.3	.3	.4	.4	.1	*	.3	.0	*	2.4	2.4
5<10	0-3	.2	.2	.2	*	.1	*	.1	.1	.0	.2	1.1	1.1
	4-10	.9	1.3	.8	1.0	.2	.3	.3	.7	.0	.0	6.1	6.1
	11-21	.6	1.3	1.2	1.2	.7	.3	.1	.2	.0	.0	6.0	6.0
	22+	.2	.4	.2	.7	.4	.1	.0	.0	.0	.0	1.9	1.9
	TOT %	2.1	3.4	2.4	2.8	1.7	.9	.4	.9	.0	.2	13.1	13.1
10+	0-3	.5	1.0	.7	1.2	1.2	.6	.4	.5	.0	1.9	8.0	8.0
	4-10	3.4	11.2	7.7	7.0	3.3	3.6	1.1	2.2	.0	.0	43.7	43.7
	11-21	3.7	8.8	3.2	4.9	3.8	1.7	.4	.6	.0	.0	27.6	27.6
	22+	.6	1.0	.1	.2	.7	.1	*	.1	.0	.0	2.9	2.9
	TOT %	10.3	22.0	11.8	13.3	11.0	6.1	1.9	2.6	.0	1.9	81.9	81.9
TOT OBS													
TOT PCT													
		12.6	26.1	14.7	16.7	13.1	7.1	2.3	4.8	.0	2.3	0.0	3305

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PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1897-1973

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1800 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	.6	.3	.9	7.6	11.2	7.0	2.1	.9	.3	1.8	32.7	67.9	330
0600Z	1.0	.3	1.3	6.4	11.1	4.7	4.0	.0	.0	.3	29.3	70.7	297
1201Z	.0	.0	.0	6.3	9.1	7.8	3.1	2.3	.0	.3	29.8	70.2	306
1802Z	.3	.3	1.6	6.3	10.4	4.9	3.8	1.4	.3	.3	30.0	70.0	367
TOT	6	3	10	92	143	83	45	17	3	10	420	960	1380
PCT	.4	.2	1.2	6.7	10.4	6.2	3.3	1.2	.2	.7	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.0	.1	.3	2.3	17.8	79.3	996
0600Z	.1	.0	.7	2.4	19.2	78.3	713
1201Z	.1	.0	.3	2.0	14.1	83.3	1099
1802Z	.0	.3	.3	2.7	19.7	86.1	761
TOT	2	3	16	84	341	2903	3349
PCT	.1	.1	.3	2.4	19.2	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
0000Z	.6	1.9	11.3	23.2	63.9	310
0600Z	1.1	3.2	11.6	20.0	68.4	289
1201Z	.3	1.1	10.2	21.8	68.0	362
1802Z	.3	2.9	10.9	20.6	68.6	350
TOT	7	29	143	280	884	1307
PCT	.3	2.2	10.9	21.4	67.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
90/94	.0	.0	.0	.6	.3	.1	.0	.0	3	.4
85/89	.0	.0	.0	.2	.3	1.0	.3	.0	29	1.8
80/84	.0	.0	.0	.4	1.8	6.2	9.8	2.4	296	22.6
75/79	.0	.0	.0	1.6	9.4	16.6	26.0	14.2	836	63.8
70/74	.0	.0	.0	.2	3.1	3.4	3.1	2.2	143	10.9
65/69	.0	.0	.0	.0	.0	.0	.3	.2	6	.3
TOTAL	0	1	0	30	130	983	918	248	1310	100.0
PCT	.0	.1	.0	2.3	9.9	29.2	19.3	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
90/94	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0
85/89	.1	.3	.2	.1	.2	.2	.2	.1	.0	.0
80/84	.1	9.4	1.8	1.3	2.1	.6	.3	1.4	.0	.6
75/79	.0	16.4	8.9	11.6	9.1	4.2	1.4	3.3	.0	.8
70/74	.4	1.3	1.4	3.2	2.4	1.3	.3	.2	.0	.2
65/69	.1	.1	.0	.1	.0	.1	.1	.1	.0	.0
TOTAL	12.8	28.0	12.6	16.8	13.9	6.7	2.8	5.1	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	67	63	61	77	72	69	63	77.0	1799
0600Z	66	61	60	77	72	68	63	76.3	1111
1201Z	91	84	83	78	73	69	63	75.3	1930
1802Z	93	88	85	79	74	70	64	79.2	1090
TOT	93	84	83	78	73	69	63	77.7	5930

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.9	6.8	27.6	40.9	23.9			63	332
0600Z	.0	.3	4.4	23.0	48.3	23.0			83	296
1201Z	.0	3.2	1.3	26.7	41.3	17.3			80	371
1802Z	.0	4.3	14.9	36.6	31.0	10.9			77	329
TOT	0	31	134	391	534	258			61	1348

FEBRUARY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1857-1973AREA 0010 FLORIANOPOLIS
25.6S 45.7W

TABLE 17

PCT PROB OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 68	69 72	73 76	77 80	81 84	83 88	89 92	>92	TOT	W FOG	NO FOG
14/14	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.1	.1	.1	.3	.0	10	.0	.6
9/10	.0	.0	.1	.1	.1	.1	.1	.1	8	.0	.5
7/8	.0	.0	.0	.2	.3	.3	.1	.0	11	.0	1.0
6	.0	.1	.0	.4	.3	.3	.1	.0	21	.0	1.4
5	.0	.0	.1	.6	1.0	.3	.0	.0	30	.0	1.9
4	.0	.0	.2	.8	1.4	.1	.0	.0	38	.0	2.5
3	.0	.1	.3	1.7	2.2	.1	.0	.0	68	.1	4.3
2	.0	.0	.8	3.8	3.0	.0	.0	.0	116	.1	7.4
1	.0	.0	.9	6.3	2.9	.1	.0	.0	151	.0	9.8
0	.0	.2	3.2	12.7	2.4	.0	.0	.0	286	.0	18.3
-1	.0	.1	4.9	11.8	.6	.0	.0	.0	273	.1	17.6
-2	.0	.4	6.4	6.1	.8	.0	.0	.0	208	.0	13.8
-3	.0	.6	3.2	3.3	.1	.0	.0	.0	142	.0	9.2
-4	.1	.8	3.1	1.0	.0	.0	.0	.0	77	.0	3.0
-5	.1	.7	1.7	.7	.0	.0	.0	.0	50	.0	3.2
-6	.0	.3	1.0	.2	.0	.0	.0	.0	23	.0	1.3
-7/-8	.1	.3	.8	.2	.0	.0	.0	.0	24	.0	1.6
-9/-10	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-11/-12	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	5	58	444	773	227	29	9	1	1946	4	1342
PCT	.3	3.8	28.7	50.0	14.7	1.9	.6	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT PROB OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.2	.0	.0	.0	.0	1.3	.6	1.6	.0	.0	.0	.0	2.2
1-2	.0	5.2	1.7	.0	.0	.0	6.9	.5	7.3	2.3	.0	.0	.0	10.4
3-4	.1	.7	2.6	.1	.0	.0	3.6	.0	3.4	4.3	.0	.0	.0	7.8
5-6	.0	.3	1.0	.2	.0	.0	1.6	.0	1.3	3.0	.2	.0	.0	4.7
7	.0	.0	.2	.3	.0	.0	.3	.0	.3	1.7	.2	.0	.0	2.2
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.4	9.7	.8	.0	.0	14.4	1.1	4.1	12.2	.5	.0	.0	27.9

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.5	.0	.0	.0	.0	.6	.2	1.0	.0	.0	.0	.0	1.3
1-2	.2	4.7	.7	.0	.0	.0	5.6	.0	4.0	.8	.0	.0	.0	6.9
3-4	.2	2.3	1.0	.0	.0	.0	3.6	.2	2.0	2.7	.0	.0	.0	4.8
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.4	2.1	.0	.0	.0	2.3
7	.0	.4	.8	.4	.0	.0	1.6	.0	.2	.1	.2	.0	.0	.3
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.8	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.9	3.9	.7	.0	.0	13.1	.3	7.6	9.9	1.4	.0	.0	13.3

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0010 FLORIANOPOLIS
26.03 49.74

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.2	.1	.0	.0	.0	1.8	.4	.0	.0	.0	.0	.0	.4
1-2	.3	2.9	.8	.0	.0	.0	4.0	.2	2.7	.6	.0	.0	.0	3.5
3-4	.0	1.8	1.3	.0	.0	.0	3.1	.0	.8	.7	.0	.0	.0	1.5
5-6	.0	.5	2.6	.2	.0	.0	3.3	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.3	.2	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	5.4	1.0	.3	.0	14.1	.3	3.6	2.3	.4	.0	.0	6.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.3	.4	.0	.0	.0	.0	.9	
1-2	.0	.2	.2	.0	.0	.0	.3	.2	1.3	.4	.0	.0	.0	2.1	
3-4	.0	.3	.4	.0	.0	.0	.9	.0	.8	.3	.0	.0	.0	1.1	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	.9	.0	.0	.0	1.9	.8	2.8	.9	.0	.0	.0	4.5	76.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	6.4	5.9	.2	.0	.0	.0	12.5	683
1-2	1.6	28.1	7.3	.0	.0	.0	37.2	
3-4	.5	12.3	13.0	.2	.0	.0	26.0	
5-6	.0	2.8	10.7	.9	.0	.0	14.1	
7	.0	.0	3.4	1.2	.0	.0	3.7	
8-9	.0	.0	.3	1.6	.0	.0	2.1	
10-11	.0	.0	.3	.3	.2	.0	1.2	
12	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.0	.2	.4	.2	.0	.7	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.5	50.0	36.3	4.6	.3	.0	100.0	362

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	12.7	11.7	7.0	1.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	404	3
6-7	.0	1.0	10.3	8.7	4.1	2.0	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	3
8-9	.0	.4	2.3	6.3	2.8	1.6	1.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	6
10-11	.0	.1	.3	.4	.8	.3	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
12-13	.0	.0	.3	.1	.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	6
313	.0	.0	.0	.2	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
INDOT	2.8	2.7	3.9	1.4	1.8	1.3	.6	.2	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	174	4
TOTAL	38	209	318	241	127	81	41	11	10	2	0	0	0	1	0	0	0	0	0	1093	4
PCT	3.3	18.7	29.0	22.0	11.6	7.4	3.7	1.0	.9	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.85 49.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT GS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.9	1.9	.2	.0	.0	.0	.0	6.0	.4	3.2	.0	.0	.0	.0	90.7
NE	1.3	1.9	.0	.0	.0	.0	.0	4.0	2.2	2.0	.4	.0	.4	.0	91.0
E	2.3	2.1	.3	.0	.0	.0	.0	4.8	3.1	1.5	.0	.0	.0	.0	90.6
SE	3.2	3.4	1.6	.0	.0	.0	.0	10.2	4.5	1.2	.3	.0	.0	.6	83.3
S	2.7	4.1	1.3	.0	.0	.0	.0	8.2	5.2	.9	.0	.0	.4	.0	85.3
SW	4.2	1.1	1.3	.0	.0	.0	.0	3.9	2.1	3.2	.0	.0	.0	.0	88.6
W	4.6	4.1	1.0	.0	.0	.0	.0	9.7	.0	3.6	.0	.0	.0	.0	84.7
NW	1.8	.0	4.8	.0	.0	.0	.0	6.6	.0	4.8	.0	.0	2.4	.0	87.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	.0	.0	4.3	.0	82.6
TOT PCT	2.7	2.8	1.0	.0	.0	.0	.0	6.4	2.9	2.1	.2	.0	.3	.1	88.1
TOT OBS:	1846														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT CS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	3.9	2.2	1.4	.0	.0	.0	.0	7.3	1.8	4.1	.2	.0	.2	.2	85.9
0600Z	3.0	2.8	1.4	.0	.0	.0	.0	7.2	4.0	4.9	.2	.0	.0	.2	83.6
1200Z	1.5	4.1	.4	.0	.0	.0	.0	6.0	2.3	.0	.2	.0	.8	.0	90.3
1800Z	2.3	1.8	.7	.0	.0	.0	.0	4.8	3.4	.2	.0	.0	.0	.0	91.6
TOT PCT TOT OBS:	2.7 1878	2.8	1.0	.0	.0	.0	.0	6.4	2.9	2.2	.2	.0	.3	.1	88.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-9	10-19	20-29	30-39	40-49	50-59	00				03	06	09	12	15	18	21
N	.7	5.9	4.6	.3	.0	.0	.0	11.6	10.4	8.2	9.6	12.7	19.7	14.7	14.3	9.9	10.2
NE	1.2	13.3	12.4	1.0	.0	.0	.0	28.9	11.3	24.7	20.4	27.8	30.3	23.3	24.4	28.2	19.3
E	.9	9.0	9.8	.7	.2	.1	.0	16.3	10.9	20.3	19.2	16.4	19.4	13.7	13.8	15.4	17.6
SE	.8	7.4	6.7	1.7	.2	.0	.0	17.3	12.3	20.2	18.3	13.4	10.1	16.6	15.7	17.3	18.2
S	.8	3.6	4.9	1.3	.0	.0	.0	12.3	12.3	13.7	10.2	11.2	10.6	11.3	12.2	15.2	23.6
SW	.3	3.1	2.9	1.1	.0	.0	.0	7.4	12.7	6.2	6.6	6.9	8.3	8.6	10.3	7.2	4.3
W	.4	1.3	.7	.2	.0	.0	.0	2.4	9.8	1.3	2.0	3.3	4.3	3.8	4.0	2.4	3.4
NW	.4	1.8	.7	.1	.0	.0	.0	2.9	9.1	1.8	2.4	3.2	4.3	4.3	3.3	2.7	1.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.8	.0	1.4	2.1	3.1	.0	1.7	1.9	1.1	.0
TOT OBS	481	3141	2389	435	33	8	6483	11.2		1231	803	1187	47	1202	930	1217	44
TOT PCT	7.2	47.0	38.7	6.3	.5	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
N	3.0	7.0	1.5	0	0	11.6	10.4	8.7	13.0	14.6	9.9	
NE	5.6	16.1	3.1	.1	0	20.9	11.3	27.7	27.9	24.0	27.9	
E	4.3	9.8	2.4	.1	.2	16.3	10.9	20.0	16.4	13.7	13.8	
SE	3.8	9.2	3.4	.7	.1	17.3	12.3	19.3	13.2	16.2	17.3	
S	2.6	6.6	3.0	.3	.0	12.3	12.3	12.3	11.2	11.7	15.5	
SW	1.7	3.7	2.0	.3	0	7.6	12.7	6.4	6.8	9.3	7.7	
W	1.1	1.3	.4	0	0	2.8	9.8	1.6	2.3	3.9	2.4	
NW	1.1	1.3	.3	0	.0	2.9	9.1	2.0	3.2	3.9	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8					1.8	.0	1.7	3.0	1.8	1.0	
TOT OBS	1667	3669	1207	107	6483		11.2	2036	1234	2132	1261	
TOT PCT	24.9	54.9	18.1	1.6	.3	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.7	4.8	48.2	37.6	6.7	.7	.1	11.3	100.0	2056
0600Z	3.0	4.8	49.6	36.1	6.7	.6	.1	10.9	100.0	1234
1200Z	1.0	6.2	45.3	39.7	6.7	.3	.1	11.2	100.0	2132
1800Z	1.0	3.6	48.8	41.2	4.1	.5	.2	11.3	100.0	1261
TOT	129	298	3141	2385	435	33	0	11.2		6683
PCT	1.8	5.4	47.0	38.7	6.5	.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	3.3	2.9	3.7	1.7		4.3
NE	4.4	6.8	6.1	3.3		3.9
E	4.0	3.3	9.7	2.7		4.5
SE	4.0	3.1	6.3	4.0		3.0
S	3.3	9.2	3.5	3.5		4.7
SW	2.1	1.3	2.1	1.2		4.4
W	.9	.4	.7	.8		4.5
NW	.9	.3	.8	.4		4.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.1	.6	.1		4.4
TOT OBS	413	306	443	251	1417	4.4
TOT PCT	29.3	21.6	31.4	17.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	399	999	1999	3499	4999	6499	7999	8000+	ANY MGT	OBS
N	.0	.0	.1	.6	1.0	.7	.1	.3	.1	.1	.8	8.9
NE	.1	.0	.3	.7	2.0	1.6	1.1	.4	.2	.2	21.2	21.2
E	.1	.0	.2	1.0	2.0	1.3	.6	.1	.0	.1	10.9	10.9
SE	.1	.1	.5	1.5	2.1	1.6	1.2	.3	.1	.2	9.8	9.8
S	.0	.0	.6	1.0	1.1	1.1	.3	.1	.2	.0	9.0	9.0
SW	.1	.0	.1	.2	.7	.3	.1	.0	.0	.0	4.9	4.9
W	.0	.0	.0	.2	.0	.3	.1	.1	.0	.0	2.0	2.0
NW	.0	.0	.0	.0	.2	.3	.1	.0	.0	.0	1.8	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.3	.1	.1	.1	.0	.0	.0	.6	.6
TOT OBS	4	2	26	79	132	104	34	18	8	8	980	1417
TOT PCT	.3	.1	1.8	5.6	9.3	7.3	3.4	1.3	.6	.6	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>30
>OR >8000	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>OR >6000	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>OR >4000	4.1	5.9	6.1	6.1	6.1	6.1	6.1	6.1
>OR >2000	9.1	13.0	13.3	13.7	13.7	13.7	13.7	13.7
>OR >1000	15.9	21.8	22.7	22.8	22.8	22.8	22.8	22.8
>OR >600	19.7	27.1	28.1	28.3	28.3	28.3	28.3	28.3
>OR >300	20.9	28.7	29.8	29.9	29.9	29.9	29.9	29.9
>OR >150	21.0	28.8	29.7	29.8	29.8	29.8	29.8	29.8
>OR >0	21.2	29.1	30.2	30.6	30.6	30.6	30.6	30.6
TOTAL	304	417	433	439	439	439	439	439

TOTAL NUMBER OF OBS: 1434

PCT FREQ NM <5/8: 69.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
0.7	10.7	10.9	12.0	10.2	6.1	6.8	7.3	11.6	.1	1511

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1859-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.05 45.7M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.2	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	
	NO PCP	.1	.3	.2	.1	.1	.0	.2	.0	.0	.0	1.0	
	TOT S	.3	.4	.2	.2	.2	.0	.2	.1	.0	.0	1.0	
5<10	PCP	.1	.6	.5	1.2	.7	.2	.1	.1	.0	.0	3.4	
	NO PCP	1.0	4.4	3.9	3.3	3.3	1.4	.4	.3	.0	.3	18.9	
	TOT S	1.2	5.0	4.4	4.7	3.9	1.5	.5	.4	.0	.3	22.3	
10+	PCP	.2	.2	.2	.6	.4	.2	.2	.0	.0	.0	2.1	
	NO PCP	9.6	20.3	11.8	12.7	10.0	4.7	1.8	1.6	.0	.8	73.9	
	TOT S	9.8	20.7	12.0	13.3	10.4	4.9	2.0	1.6	.0	.8	75.6	
TOT OBS													
TOT PCT													
		11.3	26.3	16.7	16.2	14.7	6.4	2.7	2.3	.0	1.2	100.0	1843

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.7	
	11-21	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	1.0	
	22+	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT S	.4	.6	.3	.3	.3	.1	.1	.1	.0	.0	2.2	
5<10	0-3	.0	.2	.1	.1	.1	.1	.1	.0	.0	.4	1.1	
	4-10	.8	1.7	1.3	1.0	1.0	.3	.3	.3	.0	.0	6.9	
	11-21	.7	2.0	1.4	1.7	.8	.3	.1	.2	.0	.0	7.2	
	22+	.1	.2	.2	.7	.8	.2	.0	.0	.0	.0	1.8	
	TOT S	1.6	4.1	2.9	3.5	2.8	1.1	.5	.3	.0	.4	17.0	
10+	0-3	.5	.8	.7	.7	.3	.3	.2	.0	1.2	5.2		
	4-10	5.7	10.7	7.2	6.1	4.0	2.2	.9	4.3	.0	.0	38.1	
	11-21	4.3	11.3	6.4	5.1	3.8	2.6	.3	.4	.0	.0	32.3	
	22+	.2	.7	.3	1.0	1.2	.9	.0	.1	.0	.0	4.4	
	TOT S	10.7	23.6	12.6	12.9	9.3	6.1	1.8	2.0	.0	1.2	80.2	
TOT OBS													
TOT PCT													
		12.8	28.4	16.0	16.9	12.1	7.3	2.4	2.6	.0	1.6	100.0	3922

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1853-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.65 45.74

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	TOTAL DBS	NM <5/8 ANY HGT	TOTAL DBS
0000Z	.8	.0	1.9	5.1	8.6	6.8	3.3	.3	.8	1.1	28.9	71.1	370				
0600Z	.0	.3	.9	7.1	10.1	6.5	3.3	1.2	.6	.3	30.2	69.8	338				
1200Z	.0	.3	2.5	5.0	8.3	9.8	3.3	1.5	.8	.8	32.2	67.8	397				
1800Z	.3	.0	1.6	4.4	9.3	6.3	4.6	1.9	.0	.0	28.7	71.3	366				
TOT PCT	3 .3	2 .1	26 1.8	79 5.4	133 9.0	109 7.4	84 3.7	18 1.2	8 .5	8 .5	442 30.0	1029 70.0	1471 100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10<11	11<12	12<13	13<14	14<15	15<16	16<17	17<18	18<19	19<20	20<21	21<22	22<23	23<24	TOTAL DBS
0000Z	.1	.2	.4	2.4	18.4	78.5	1161																			
0600Z	.4	.0	.5	2.3	19.0	77.9	793																			
1200Z	.0	.1	.5	2.0	16.7	80.7	1187																			
1800Z	.0	.0	.5	2.0	13.9	83.6	813																			
TOT PCT	4 .1	3 .1	19 .5	86 2.2	676 17.1	3168 80.1	3956 100.0																			

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<1/2 <500	1/2<1 <600	1<2 <1000	2<3 >1000	3<4 >1000	4<5 >1000	5<6 >1000	6<7 >1000	7<8 >1000	8<9 >1000	9<10 >1000	10<11 >1000	11<12 >1000	12<13 >1000	13<14 >1000	14<15 >1000	15<16 >1000	16<17 >1000	17<18 >1000	18<19 >1000	19<20 >1000	20<21 >1000	21<22 >1000	22<23 >1000	23<24 >1000	TOTAL DBS
0000Z	.8	2.8	9.7	20.3	70.0	360																				
0600Z	.0	1.2	10.4	21.0	68.6	328																				
1200Z	.0	2.8	9.0	24.2	66.8	389																				
1800Z	.6	2.2	7.8	21.3	70.9	357																				
TOT PCT	3 .3	33 2.3	132 9.2	312 21.8	990 69.0	1434 100.0																				

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
00/94	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
05/89	.0	.0	.0	.0	.3	.8	.2	.1	21	1.4
10/84	.0	.0	.0	.2	1.4	3.8	7.6	1.4	238	16.2
15/79	.0	.0	.1	2.3	7.1	17.3	25.1	12.3	940	64.3
20/74	.0	.0	.1	1.0	3.9	4.1	9.0	3.3	239	17.8
25/69	.0	.0	.0	.1	.1	.1	.1	.1	6	.4
TOTAL	0	0	3	34	188	408	960	239	1478	100.0
PCT	.0	.0	.2	3.7	12.8	27.7	38.0	17.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
00/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
05/89	.1	.9	.2	.1	.1	.0	.0	.0	.0	.0
10/84	3.3	7.0	1.8	1.3	1.1	.5	.3	.5	.0	.4
15/79	6.4	13.8	12.3	13.4	8.7	4.2	1.3	1.3	.0	.7
20/74	1.0	2.0	3.0	4.7	4.3	1.6	.8	.1	.0	.3
25/69	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
TOTAL	10.9	23.8	17.3	19.8	14.5	6.3	2.3	1.8	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL DBS
0000Z	90	82	81	77	72	69	63	76.5	2039
0600Z	84	81	80	76	71	68	64	75.9	1231
1200Z	92	86	83	79	73	70	64	77.8	2056
1800Z	84	88	84	78	73	69	64	78.4	1208
TOT	94	85	82	77	71	69	63	77.2	6530

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000Z	.0	2.0	9.5	24.4	40.3	23.6	82	408		
0600Z	.0	2.0	10.5	21.9	42.9	22.7	82	363		
1200Z	.0	1.7	15.3	30.2	35.4	15.2	79	407		
1800Z	.0	6.1	15.4	34.3	35.8	8.4	77	364		
TOT	0	99	190	414	569	264	80	1496		

MARCH

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1855-1973

AREA 0010 FLORIANOPOLIS
26.63 45.74

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65	69	73	77	81	85	89	TGT	N	NO
	68	72	76	80	84	88	92		FOG	FOG
11/13	.0	.0	.0	.0	.1	.1	.1	3	.0	.2
1/10	.0	.0	.0	.1	.0	.1	.2	7	.0	.4
7/8	.0	.1	.0	.1	.2	.4	.0	12	.0	.7
6	.0	.0	.1	.2	.1	.2	.0	9	.0	.6
5	.0	.0	.2	.7	.6	.1	.0	26	.0	1.6
4	.0	.0	.2	.7	1.0	.2	.0	39	.0	2.2
3	.0	.0	.1	1.5	1.5	.1	.0	51	.0	3.1
2	.0	.1	1.1	3.6	2.8	.1	.0	129	.0	7.9
1	.0	.0	2.2	6.3	1.3	.1	.0	164	.1	10.0
0	.1	.3	4.2	12.0	.9	.0	.0	283	.0	17.4
-1	.0	.2	3.7	6.6	.6	.0	.0	262	.1	16.0
-2	.0	.3	7.1	3.9	.2	.0	.0	219	.0	13.8
-3	.0	.9	6.2	3.0	.1	.0	.0	163	.0	10.0
-4	.0	.7	4.3	.9	.1	.0	.0	100	.0	6.2
-5	.0	1.0	3.4	.9	.0	.0	.0	86	.0	3.3
-6	.0	.7	1.1	.1	.0	.0	.0	31	.0	1.0
-7/-8	.0	1.0	1.1	.1	.0	.0	.0	36	.0	2.2
-9/-10	.0	.1	.1	.0	.0	.0	.0	3	.0	.2
-11/-13	.1	.2	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	2	91	604	743	198	21	4	1623	.2	1620
PCT	.1	3.6	37.2	45.8	9.7	1.3	.2	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.9	.0	.0	.0	.0	1.1	41	.2	2.1	.4	.0	.0	.0	3.7
1-2	.1	2.7	.0	.0	.0	.0	3.8	1-2	.1	3.7	3.3	.0	.0	.0	9.3
3-4	.0	1.3	.0	.0	.0	.0	4.1	3-4	.0	4.3	4.2	.0	.0	.0	8.8
5-6	.0	.2	1.3	.0	.0	.0	1.6	5-6	.0	1.0	2.6	.0	.0	.0	3.6
7	.0	.2	.5	.1	.0	.0	.8	7	.0	.4	3.3	.2	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	4.4	.1	.0	.0	11.3	TOT PCT	.3	13.7	13.0	.6	.0	.0	28.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	1.3	.0	.0	.0	.0	1.4	41	.1	.9	.0	.0	.0	.0	1.4
1-2	.1	2.0	.0	.0	.0	.0	4.7	1-2	.1	4.3	1.8	.0	.0	.0	6.3
3-4	.0	1.7	.0	.0	.0	.0	3.7	3-4	.0	1.9	4.4	.0	.0	.0	6.3
5-6	.0	.2	1.0	.0	.0	.0	1.7	5-6	.0	.2	1.9	.2	.0	.0	4.3
7	.0	.3	.3	.0	.0	.0	.3	7	.0	.3	.3	.1	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1	8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.7	4.9	.2	.0	.0	14.2	TOT PCT	.3	7.3	8.7	.7	.0	.0	17.4

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.2
1-2	.0	3.3	.0	.0	.0	.0	4.1	.0	1.4	.2	.0	.0	.0	1.6
3-4	.2	1.7	2.3	.1	.0	.0	4.3	.0	.4	1.2	.0	.0	.0	1.6
5-6	.0	.3	1.7	.4	.0	.0	2.9	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.0	1.3	.9	.0	.0	2.4	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.4	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.3	6.7	1.8	.0	.0	13.6	.0	2.3	2.9	.6	.0	.0	5.7

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.1	.0	.4	.0	.0	.0	.0	.4	
1-2	.4	.0	.0	.0	.0	.0	.4	.0	1.3	.2	.0	.0	.0	1.3	
3-4	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4	
5-6	.0	.1	.3	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.6	1.3	.0	.0	.0	2.4	.0	2.2	.6	.0	.0	.0	2.9	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.4	6.4	.4	.0	.0	.0	11.1	088
1-2	1.6	23.3	7.1	.0	.0	.0	32.1	
3-4	.2	12.4	18.0	.4	.0	.0	31.3	
5-6	.0	3.3	10.4	1.1	.0	.0	14.8	
7	.0	.7	3.8	1.6	.0	.0	6.2	
8-9	.0	.0	.7	.7	.0	.0	1.3	
10-11	.0	.2	.4	.0	.0	.0	.3	
12	.0	.0	.4	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	46.6	43.2	4.0	.0	.0	100.0	349

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	484H
4-6	1.4	10.6	15.8	6.8	2.9	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	432	3
6-7	.1	2.3	7.3	11.1	4.0	1.3	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	331	3
8-9	.1	.0	2.4	3.3	3.2	1.3	1.3	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	6
10-11	.0	1.4	.9	.2	.8	.8	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	6
12-13	.0	.0	.2	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
13-15	.0	.1	.0	.1	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDT	2.7	2.2	2.9	7.0	1.6	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	3
TOTAL	4.9	20.5	34.3	27.9	13.9	6.1	4.4	1.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1168	4
PCT	4.2	17.6	29.0	23.9	12.6	5.2	3.8	1.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973AREA 0010 FLORIANOPOLIS
26.05 49.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG NEA
N	3.3	.0	.4	.0	.0	.0	.0	3.9	.6	1.5	.6	.0	.4	.0	92.7
NE	3.4	2.1	.2	.0	.0	.0	.0	3.7	.9	2.2	2.1	.0	.5	.0	86.7
E	3.7	1.6	1.1	.0	.0	.0	.0	6.4	3.6	1.5	.2	.0	.0	.0	88.3
SE	5.4	3.8	2.2	.0	.0	.0	.0	10.7	2.9	1.8	.8	.0	.6	.0	83.9
S	1.8	2.5	1.3	.0	.0	.0	.2	5.9	2.9	1.9	.6	.0	.0	.0	89.0
SW	3.3	2.1	1.1	.0	.0	.0	.1	6.3	2.8	1.6	1.0	.0	.0	.0	88.8
W	1.6	6.9	.0	.0	.0	.0	.0	10.3	5.8	2.7	.0	.0	.0	.0	80.9
NW	2.3	1.9	.0	.0	.0	.0	.0	4.1	.0	4.5	.0	.0	.0	.0	92.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	2.3	.0	.0	.0	.0	.0	.0	2.3	2.3	2.3	.0	.0	.0	.0	93.2
TOT PCT	3.4	2.3	1.0	.0	.0	.0	.1	6.3	2.3	1.9	.9	.0	.3	.0	88.4
TOT OBS: 1986															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	.PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG NEA
0000Z	3.3	1.4	1.7	.0	.0	.0	.0	6.0	1.9	4.5	1.2	.0	.2	.0	86.8
0600Z	3.0	1.6	.9	.0	.0	.0	.0	3.5	3.0	3.4	.7	.0	.2	.0	87.9
1201Z	3.3	4.2	.4	.0	.0	.0	.2	6.1	1.2	.2	1.2	.0	.0	.0	89.3
1802Z	3.7	1.4	.8	.0	.0	.0	.0	5.8	3.5	.0	.6	.0	.6	.0	89.6
TOT PCT TD OBS: 2039	3.4	3.2	.9	.0	.0	.0	.0	6.4	2.4	1.9	.9	.0	.2	.0	88.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	.9	5.3	4.7	.5	.0	.0		11.3	10.8		9.0	10.3	11.2	8.6	12.4	13.6
NE	1.2	10.3	9.3	1.2	.0	.0		22.0	11.2		22.4	23.3	22.1	26.7	20.6	22.7
E	1.3	8.9	5.4	.5	.0	.0		16.2	10.0		18.9	18.2	18.4	16.8	19.0	13.6
SE	1.1	7.7	5.0	.8	.0	.0		14.7	10.3		16.9	17.0	14.2	16.8	13.6	14.7
S	1.1	3.9	6.1	1.3	.0	.0		14.4	11.8		13.1	13.8	13.3	13.1	14.0	14.1
SW	.8	4.0	4.9	1.6	.1	.1		11.1	13.3		10.4	9.5	9.8	7.8	11.9	11.7
W	.4	1.8	1.0	.3	.1	.0		3.6	10.3		2.4	1.9	3.6	1.7	4.9	4.2
NW	.0	2.1	1.3	.1	.0	.0		4.1	9.3		2.4	3.4	4.2	4.7	3.8	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0
CALP	2.6	.0	.0	.0	.0	.0		2.6	.0		2.4	2.4	3.1	1.7	2.3	2.2
TOT OBS	689	3114	2529	422	19	3	6758		10.8		1194	843	1173	38	1221	973
TOT PCT	9.9	46.1	37.4	6.2	.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-60					00	03	09	18
N	2.8	6.6	1.9	.0	.0		11.3	10.8	9.6	11.1	12.7	13.1
NE	4.9	12.9	4.0	.2	.0		22.0	11.2	22.9	22.4	21.3	21.0
E	4.6	9.6	1.9	.0	.0		16.2	10.0	18.6	18.3	14.4	13.4
SE	4.1	8.0	2.4	.2	.0		14.7	10.3	16.9	14.4	12.8	14.7
S	3.6	7.3	3.2	.3	.0		14.4	11.8	14.6	13.4	14.1	13.9
SW	3.3	9.0	3.0	.3	.1		11.1	13.3	10.1	9.7	11.8	12.9
W	1.3	1.7	.3	.1	.0		3.6	10.3	2.2	3.5	4.6	4.0
NW	1.5	2.0	.3	.0	.0		4.1	9.3	2.8	4.2	3.4	3.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALP	2.6	.0	.0	.0	.0		2.6	.0	2.4	3.0	2.8	2.4
TOT OBS	1894	3562	1165	89	8	6758		10.8	2037	1233	2194	1294
TOT PCT	28.0	53.0	17.3	1.3	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

APRIL

AREA 0010 FLORIANOPOLIS
26.63 45.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	48+		
0000	2.4	6.7	47.0	36.9	6.7	.3	0	10.9	100.0
0400	3.0	7.1	49.3	35.6	4.7	.2	0	10.3	100.0
1200	2.8	7.9	44.8	37.6	6.6	.3	0	10.8	100.0
1800	2.4	7.3	43.8	39.6	6.5	.2	0	11.0	100.0
TOT	178	491	31.4	2329	422	19	5	10.8	6758
PCT	2.6	7.3	46.1	37.4	6.2	.3	.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	TOTAL CLOUD OBS					MEAN CLOUD COVER
	0-2	3-4	5-7	8-10	11-13	
N	3.8	2.7	3.0	1.5		3.9
NE	7.4	5.6	4.8	2.9		3.7
E	4.8	3.8	5.1	2.2		4.2
SE	4.8	4.2	5.8	3.0		4.5
S	4.7	4.1	5.5	2.5		4.4
SW	3.4	2.1	3.8	1.8		4.2
W	1.0	.9	.9	.2		3.7
NW	.8	.8	.3	.5		3.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.6	.1		3.5
TOT OBS	443	347	418	190	1398	4.1
TOT PCT	31.7	24.8	29.9	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH) >4/8
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.2	.3	1.0	.4	.4	.1	.1	.1	8.5	
.0	.0	.1	1.0	1.4	1.1	.4	.1	.2	.1	15.7	
.1	.0	.3	1.0	1.6	1.2	.6	.1	.0	.1	11.1	
.0	.0	.3	1.3	1.8	1.2	1.3	.0	.1	.0	11.9	
.1	.0	.1	1.3	2.3	1.4	.8	.3	.2	.1	10.4	
.1	.0	.1	.8	1.2	.9	.4	.3	.1	.1	7.2	
.0	.1	.1	.2	.3	.1	.0	.0	.0	.0	2.2	
.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	1.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.3	.1	.0	.0	.0	.1	1.6	
.3	1	16	86	138	85	37	11	10	8	983	1398
.2	.1	1.1	6.2	9.9	6.1	4.1	.8	.7	.6	70.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1	>0
>OR >5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>OR >4000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>OR >3000	3.0	6.1	6.2	6.2	6.2	6.2	6.2	6.2
>OR >2000	9.5	11.6	12.1	12.2	12.2	12.2	12.2	12.2
>OR >1000	17.3	20.8	21.8	21.9	21.9	21.9	21.9	21.9
>OR >500	21.9	26.4	27.7	27.9	28.0	28.1	28.1	28.1
>OR >300	22.2	27.3	28.8	29.0	29.1	29.2	29.2	29.2
>OR >150	22.3	27.6	28.9	29.1	29.2	29.2	29.2	29.2
>OR >0	22.4	27.6	29.0	29.2	29.3	29.3	29.3	29.3
TOTAL	319	394	413	417	418	420	420	420

TOTAL NUMBER OF OBS: 1426

PCT FREQ NH <5/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF (ON CLOUDS (EIGHTHS)

TOTAL OBS									
0	1	2	3	4	5	6	7	8	9
9.3	18.1	18.3	16.2	10.7	7.6	7.6	6.1	7.9	.2

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1960-1973

APRIL

AREA 001C FLORIANOPOLIS
26.65 45.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.1	.2	.2	.0	.1	.0	.0	.0	.4	
	NO PCP	.2	.2	.1	.3	.0	.4	.1	.1	.0	.0	1.4	
	TOT %	.2	.3	.2	.5	.2	.4	.2	.1	.0	.0	2.2	
5<10	PCP	.9	.7	.6	1.1	.2	.3	.2	.1	.0	.1	3.9	
	NO PCP	2.4	4.2	2.9	2.6	2.7	1.7	.4	.8	.0	.3	18.0	
	TOT %	2.7	4.9	3.5	3.7	2.9	2.0	.9	.9	.0	.4	21.4	
10+	PCP	.2	.3	.2	.3	.3	.2	.1	.1	.0	.0	1.8	
	NO PCP	8.8	13.8	11.9	11.8	11.6	7.3	2.4	2.4	.0	1.9	74.0	
	TOT %	9.9	16.3	12.2	12.1	11.9	7.4	2.5	2.5	.0	1.9	75.8	
TOT OBS													1985
TOT PCT		11.9	21.3	16.1	16.4	15.2	10.2	3.2	3.4	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.1	.1	.0	.0	.0	.8	
	11-21	.1	.2	.1	.2	.2	.1	.0	.0	.0	.0	.9	
	22+	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.2	.4	.2	.4	.4	.3	.2	.1	.0	.1	2.2	
5<10	0-3	.1	.2	.2	.1	.1	.1	.0	.1	.0	.3	1.2	
	4-10	.9	1.3	1.2	1.1	.9	.6	.2	.3	.0	.0	6.0	
	11-21	1.0	1.7	1.1	1.3	1.0	.7	.1	.2	.0	.0	7.0	
	22+	.1	.4	.1	.3	.2	.3	.1	.0	.0	.0	1.0	
	TOT %	1.9	3.6	2.7	2.8	2.2	2.0	.4	.7	.0	.3	16.6	
10+	0-3	.7	.9	.9	.7	.8	.7	.3	.3	.0	2.5	7.8	
	4-10	4.6	9.0	7.2	6.9	4.5	3.1	1.8	2.0	.0	.0	38.8	
	11-21	3.8	7.3	3.7	3.6	3.7	3.7	.7	1.2	.0	.0	29.4	
	22+	.4	.7	.2	.3	1.0	1.3	.3	.1	.0	.0	4.6	
	TOT %	9.5	18.1	12.0	11.3	11.6	9.0	3.1	3.6	.0	2.5	80.6	
TOT OBS													3937
TOT PCT		11.7	22.2	13.0	14.6	14.2	11.3	3.7	4.3	.0	2.9	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973AREA 0010 FLORIANOPOLIS
26.63 45.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHT: (FEET, MM >4/8) AND
OCCURRENCE OF 4/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <3/8 ANY HGT	TOTAL OBS
0000Z	.8	.0	1.1	5.4	8.8	5.7	4.6	.5	.5	.0	25.5	74.3	369
0600Z	.0	.0	1.9	4.9	10.8	5.6	2.5	.3	1.2	.3	27.5	72.5	324
1201Z	.0	.3	1.3	3.7	10.0	6.2	3.9	.8	.5	1.5	30.1	69.9	389
1802Z	.0	.0	.2	7.0	10.1	5.3	4.6	1.4	.5	.2	29.3	70.5	414
TOT	3	1	16	87	141	85	99	12	10	8	422	1074	1496
PCT	.2	.1	1.1	5.8	9.4	5.7	3.9	.8	.7	.5	28.2	71.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.1	.1	.4	2.3	17.4	79.4	1142
0600Z	.1	.0	.1	3.0	17.5	79.3	776
1201Z	.0	.1	.2	1.7	16.2	81.8	1201
1802Z	.2	.2	.3	1.8	15.7	81.6	871
TOT	4	4	12	69	666	3215	3990
PCT	.1	.1	.3	2.2	16.7	88.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MM) AND/OR
CEILING HGT (FEET, MM >4/8) BY HOUR

HOUR (GMT)	<130 <3070	<600 <1	<1000 <3	1000+ AND 3+	MM <3/8 AND 3+	TOTAL OBS
0000Z	.9	2.0	9.5	18.1	72.4	348
0600Z	.0	2.0	8.9	20.0	71.1	305
1201Z	.0	1.9	9.1	22.8	68.0	372
1802Z	.0	.5	9.7	21.7	68.6	401
TOT	3	22	133	296	997	1426
PCT	.2	1.5	9.3	20.8	69.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
86/84	.0	.0	.3	1.1	2.4	1.5	.6	.0	89	3.9
79/79	.0	.2	.1	2.9	6.1	16.2	10.0	4.5	677	63.2
76/74	.0	.0	.5	2.9	9.9	11.2	10.3	6.5	620	41.4
69/69	.0	.0	.0	.5	1.5	2.5	1.3	1.1	104	6.9
66/64	.0	.0	.6	.1	.1	.1	.2	.1	7	.5
TOT-AL	0	0	9	83	280	494	439	193	1498	100.0
PCT	.0	.0	.6	5.3	18.7	33.0	29.3	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.4	1.6	.9	.4	.6	.4	.1	.1	.0	.4
7.6	12.8	7.7	5.7	3.2	3.8	1.0	1.7	.0	.8
2.8	3.7	7.3	9.4	8.1	5.3	1.5	.9	.6	.3
.3	.4	.5	1.3	1.9	1.3	.4	.3	.0	.1
.0	.1	.0	.0	.2	.1	.0	.0	.0	.1
12.0	20.7	16.4	17.0	16.0	10.3	3.1	2.9	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	85	80	79	74	68	65	61	73.9	2936
0600Z	82	79	78	73	68	64	61	73.3	1233
1201Z	85	83	81	78	69	65	62	75.3	2150
1802Z	90	85	82	76	69	66	64	75.8	1270
TOT	90	82	80	75	68	63	61	74.6	6691

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.6	17.1	30.3	32.7	16.1	79	416		
0600Z	.0	4.2	18.2	26.4	34.2	17.0	79	330		
1201Z	.0	6.8	18.7	33.8	27.3	11.4	76	411		
1802Z	.0	10.2	21.3	37.3	23.1	7.9	74	381		
TOT	0	96	269	304	449	200	77	1336		

APRIL

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1860-1973

AREA 0010, FLORIANOPOLIS
26.85 45.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	61 64	63 66	62 65	61 64	60 63	59 62	58 61	57 60	56 59	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.0			1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.0			1	.0	.1
9/10	.0	.0	.0	.1	.0	.1	.0			2	.0	.1
7/8	.0	.0	.1	.1	.4	.2	.1			17	.0	.9
6	.0	.0	.1	.2	.2	.5	.0			17	.0	.9
5	.0	.1	.1	.2	.6	.5	.0			21	.0	1.2
4	.0	.0	.1	.7	.9	.5	.0			41	.0	2.3
3	.0	.1	.1	1.0	1.3	.5	.0			90	.0	2.8
2	.0	.1	.9	2.4	3.3	.5	.0			128	.0	7.1
1	.0	.1	.6	3.4	3.7	.2	.0			145	.0	8.1
0	.1	.2	1.8	6.5	5.9	.4	.0			205	.5	16.7
-1	.0	.2	2.1	8.5	2.0	.1	.0			247	.1	12.6
-2	.0	.3	2.9	7.9	1.9	.1	.0			235	.2	12.8
-3	.0	.4	2.7	6.3	.9	.0	.0			187	.1	10.3
-4	.1	.9	3.2	3.2	.5	.0	.0			142	.1	7.6
-5	.1	.8	3.2	2.5	.3	.0	.0			124	.0	6.9
-6	.0	.5	1.2	1.5	.1	.0	.0			98	.0	3.2
-7/-8	.3	.5	1.7	.3	.0	.0	.0			51	.0	2.6
-9/-10	.0	.2	.4	.3	.0	.0	.0			17	.0	.9
-11/-13	.2	.4	.1	.0	.0	.0	.0			12	.0	.7
TOTAL	12		383	350	416	22	2			1001	14	1787
PCT	.7	4.6	21.3	47.2	28.1	3.1	.1			100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MS	1-3	4-10	11-21	22-33	34-47	48+	PCT	MS	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	1.0	.0	.0	.0	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	3.4	1.7	.0	.0	.0	3.1	.2	3.7	2.2	.0	.0	.0	.0	4.0
3-4	.0	.4	2.2	.0	.0	.0	2.6	.0	2.2	3.5	.2	.0	.0	.0	3.8
5-6	.0	.3	7.0	.0	.0	.0	2.2	.0	.6	1.6	.3	.0	.0	.0	2.9
7	.0	.0	.4	.3	.0	.0	.7	.0	.4	1.5	.6	.0	.0	.0	2.5
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	6.5	.3	.0	.0	12.2	.2	9.2	9.3	1.4	.0	.0	.0	20.1

MS	1-3	4-10	11-21	22-33	34-47	48+	PCT	MS	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.8	.1	.0	.0	.0	1.1	.2	.5	.0	.0	.0	.0	.0	.8
1-2	.4	3.6	1.1	.0	.0	.0	7.0	.2	3.9	1.3	.0	.0	.0	.0	3.4
3-4	.0	2.2	2.8	.1	.0	.0	5.1	.0	2.5	2.5	.0	.0	.0	.0	5.0
5-6	.0	.4	2.0	.4	.0	.0	2.8	.0	1.3	2.6	.5	.0	.0	.0	4.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.5	1.2	.9	.0	.0	.0	2.6
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.9	6.7	.3	.0	.0	16.7	.4	8.7	7.9	1.7	.0	.0	.0	16.9

AREA 0010 FLORIANOPOLIS
20.05 45.6W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
#1	.4	1.3	11-21	22-33	34-47	48+	PCT
1-2	.3	3.2	1.1	.0	.0	1.7	.9
3-4	.0	1.4	2.3	.0	.0	4.6	.5
5-6	.0	.0	2.0	.0	.0	3.9	2.7
7	.0	.0	1.0	.0	.0	1.3	1.6
8-9	.0	.0	.0	.0	.0	.0	2.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.8	4.3	1.0	.0	16.8	7.0

MOY	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.3	3.3	.2	.0	.0	.0	11.0	085
1-2	1.4	24.5	9.2	.0	.0	.0	35.2	
3-4	.0	9.1	18.1	.4	.0	.0	24.3	
5-6	.0	3.7	13.9	2.3	.0	.0	19.9	
7	.0	.9	.4	1.3	.0	.0	7.6	
8-9	.0	.0	.6	.0	.0	.0	.9	
10-11	.0	.0	.6	.2	.0	.0	.2	
12	.0	.0	.4	.4	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-28	.0	.0	.0	.0	.0	.0	.0	
29-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-65	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	
85+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	43.7	44.0	3.3	.0	.0	100.0	363

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1957-1972AREA 0010 FLORIANOPOLIS
26.03 43.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRIS PCPN	SNOW	OTHER PRIN PCPN	HAIL	PCPN AT DS TIME	PCPN PAST HOUR	THOR LTNG	POS WD PCPN	POS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.2	.8	.0	.0	.0	.0	.0	2.0	.7	.2	3.3	.0	1.2	.0	92.6
NE	1.1	2.4	.9	.0	.0	.0	.0	4.4	2.3	.7	4.1	.0	.3	.0	87.9
E	1.6	2.7	2.7	.0	.0	.0	.0	6.9	2.1	1.0	4.0	.0	.4	.0	84.8
SE	4.8	3.4	1.9	.0	.0	.0	.0	8.9	3.4	1.0	1.8	.0	.5	.0	83.6
S	1.9	1.8	.3	.0	.0	.0	.0	3.0	2.9	.4	.3	.0	.6	.0	92.2
SW	3.4	3.5	.7	.0	.0	.0	.0	7.6	1.2	.4	.1	.0	.2	.0	90.3
W	1.9	4.4	1.9	.0	.0	.0	.0	8.2	1.9	1.3	.0	.0	.0	.0	88.7
NW	.3	.0	1.0	.0	.0	.0	.0	2.1	1.5	.5	2.8	.0	1.2	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
TOT PCT	2.0	2.3	1.0	.0	.0	.0	.0	9.2	2.0	.7	2.2	.0	.6	.1	89.2
TOT OBS: 1972															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRIS PCPN	SNOW	OTHER PRIN PCPN	HAIL	PCPN AT DS TIME	PCPN PAST HOUR	THOR LTNG	POS WD PCPN	POS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	1.8	2.6	.4	.0	.0	.0	.0	4.9	1.3	1.5	2.4	.0	.7	.0	89.2
0600Z	1.9	1.7	1.0	.0	.0	.0	.0	4.3	2.4	1.2	1.7	.0	.2	.0	90.1
1201Z	2.1	3.3	1.2	.0	.0	.0	.0	6.3	1.9	.0	2.9	.0	.8	.2	87.9
1802Z	2.3	1.6	1.4	.0	.0	.0	.0	5.1	2.8	.2	2.1	.0	.7	.0	89.0
TOT PCT TOT OBS:	2.0 1918	2.4	1.0	.0	.0	.0	.0	9.2	2.1	.7	2.3	.0	.6	.1	89.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	7.4	3.4	.7	.0	.0		14.6	10.7		12.8	11.5	14.7	17.4	16.6	10.0	14.8	18.3
NE	1.1	9.2	9.0	1.2	.0	.0		20.6	11.4		21.9	22.3	20.6	18.0	20.4	17.7	20.6	19.6
E	.7	3.0	3.7	.3	.0	.0		10.0	10.6		10.9	11.9	12.2	17.4	8.6	8.2	8.1	10.9
SE	.6	6.0	4.0	1.0	.1	.0		11.7	11.4		14.4	13.9	10.9	9.7	9.9	11.1	10.4	9.6
S	1.1	6.1	3.7	1.0	.2	.0		14.9	12.8		19.9	13.9	13.4	10.9	13.9	13.2	14.3	14.1
SW	.6	4.8	6.9	2.0	.5	.0		19.3	14.6		12.9	14.3	16.0	18.0	13.9	17.4	14.3	14.3
W	.6	7.4	1.3	.3	.2	.0		4.9	11.7		4.1	4.2	4.2	1.2	3.3	3.7	3.4	7.6
NW	.7	2.1	1.4	.2	.1	.0		3.8	9.3		4.6	4.1	3.1	2.3	6.8	8.4	3.7	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALF	2.9	.0	.0	.0	.0	.0		2.9	.0		2.3	3.8	2.3	.0	2.3	2.3	2.0	.0
TOT OBS	617	3033	2390	604	72	3	6881		11.3		1221	874	1228	43	1220	1034	1219	46
TOT PCT	9.0	44.1	37.1	8.8	1.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	7-16	17-27	28-40	41+						00	06	12	18	21
N	4.0	8.0	2.3	.3	.0			14.6	10.7		12.3	14.8	16.3	14.9	
NE	4.6	11.6	4.2	.1	.0			20.6	11.4		22.1	20.3	19.3	20.4	
E	2.9	3.4	1.8	.1	.0			10.0	10.6		11.3	12.3	8.4	8.2	
SE	3.0	6.1	2.1	.4	.0			11.7	11.4		14.2	10.8	10.4	10.6	
S	3.7	7.0	3.4	.7	.0			14.9	12.8		19.0	13.7	14.3	16.4	
SW	3.1	6.0	4.9	1.3	.1			19.3	14.6		13.6	16.1	16.6	16.2	
W	1.7	2.0	.8	.3	.0			4.9	11.7		4.2	4.1	3.6	3.3	
NW	2.3	2.4	.7	.1	.0			3.3	9.3		4.4	3.0	6.6	3.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALF	2.3	.0	.0	.0	.0			2.3	.0		3.0	2.7	2.3	1.9	
TOT OBS	1912	3333	1383	241	10	6881			11.3		2093	1271	2234	1261	
TOT PCT	27.8	48.3	20.1	3.5	.1			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0010 FLORIANOPOLIS
26.05 43.7N

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (SMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	3.0	0.3	43.6	35.0	9.3	.8		0	11.3	100.0	2095
0400Z	2.7	0.5	45.3	36.0	7.6	1.4		.1	11.3	100.0	1271
1200Z	2.3	0.3	42.4	38.2	9.4	1.2		.0	11.7	100.0	2254
1800Z	1.9	0.6	48.9	39.6	8.0	1.0		.1	11.7	100.0	1261
TOT	1.9	4.4	30.3	25.0	6.6	7.2		3	11.3		6881
PCT	2.3	0.3	44.1	37.1	8.8	1.0		0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.3	3.4	3.8	1.2		3.2
NE	6.5	4.4	3.8	3.1		3.8
E	4.0	2.3	2.1	1.7		3.9
SE	3.3	2.7	2.4	2.8		4.4
S	4.3	3.1	4.6	2.7		4.3
SW	5.9	3.3	3.8	2.4		3.9
W	1.3	1.0	1.4	.7		4.2
NW	1.7	1.4	1.5	.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.2	.1	.2	.1		1.7
TOT OBS	477	273	321	189	1260	3.8
TOT PCT	27.9	21.7	25.3	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

000 145	150 299	300 599	600 999	1000 1999	2000 349	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.1	.1	.9	.8	.4	.1	.1	.0	13.3	
.0	.0	.3	.6	2.4	1.6	1.9	.3	.0	.1	19.2	
.0	.0	.0	.5	1.3	.7	.9	.2	.0	.1	7.0	
.2	.1	.1	.6	1.8	.7	.7	.1	.0	.0	7.1	
.1	.2	.2	1.0	2.1	1.2	.4	.1	.0	.1	9.3	
.0	.1	.1	.9	1.6	1.3	.7	.1	.0	.0	10.7	
.0	.0	.0	.3	.6	.3	.3	.0	.0	.0	2.8	
.0	.0	.0	.1	.4	.2	.2	.1	.0	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.4	
.3	.5	1.0	3.1	14.1	8.8	8.9	1.1	.1	.3	89.4	
.2	.4	.8	4.0	11.2	7.0	4.2	.9	.1	.2	71.0	
										1260	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >1000	.3	.3	.3	.3	.3	.3	.3	.3
> OR >100	.9	1.1	1.1	1.2	1.2	1.2	1.2	1.2
> OR >500	4.5	5.2	5.3	5.4	5.4	5.4	5.4	5.4
> OR >2000	10.0	11.0	12.2	12.3	12.3	12.3	12.3	12.3
> OR >1000	10.9	22.7	23.2	23.4	23.4	23.4	23.4	23.4
> OR >500	21.8	26.9	27.2	27.3	27.3	27.3	27.4	27.4
> OR >200	22.4	27.2	28.0	28.1	28.1	28.1	28.2	28.2
> OR >100	22.7	27.6	28.4	28.5	28.5	28.5	28.6	28.6
> OR >0	22.7	27.7	28.4	28.7	28.7	28.7	28.8	28.8
TOTAL	291	354	364	367	367	367	369	369

TOTAL NUMBER OF OBS: 1260

PCT FREQ NH <4/8: 71.2

TABLE 7A

PERCENTAGE FREQ OF (ON CLOUDS (EIGHTHS))

0	1	2	3	4	5	6	7	8	9	CEASD	TOTAL OBS
14.8	18.6	14.3	13.9	7.3	6.4	7.9	5.1	10.4	.2		1370

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1857-1972

MAY

AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
2<5	PCP	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	NO PCP	.3	.3	.1	.1	.2	.2	.0	.0	.0	.0	1.2	
	TOT %	.4	.4	.1	.1	.2	.3	.1	.0	.0	.0	1.6	
5<10	PCP	.1	.3	.4	.3	.3	.7	.2	.0	.0	.0	2.4	
	NO PCP	3.2	4.6	2.0	2.4	2.7	2.7	1.1	1.1	.0	.4	20.9	
	TOT %	3.4	5.1	2.4	2.8	3.1	3.5	1.3	1.1	.0	.4	23.4	
10+	PCP	.1	.3	.3	.6	.1	.5	.1	.0	.0	.0	2.0	
	NO PCP	12.3	13.6	7.8	7.4	10.8	11.8	3.0	3.4	.0	1.0	73.1	
	TOT %	12.4	14.0	8.1	7.9	10.9	12.1	3.2	3.5	.0	1.0	75.1	
TOT OBS													1771
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
41/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.3	
2<3	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	4-10	.1	.2	.0	.1	.2	.1	.0	.0	.0	.0	.7	
	11-21	.2	.1	.1	.1	.2	.1	.1	.0	.0	.0	.9	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	.4	.2	.4	.4	.3	.1	.0	.0	.0	2.1	
5<10	0-3	.1	.3	.1	.1	.2	.1	.0	.1	.0	.3	1.3	
	4-10	1.2	1.2	.6	1.0	.8	.6	.4	.3	.0	.0	6.2	
	11-21	1.3	2.0	.9	.8	.9	1.1	.2	.3	.0	.0	7.7	
	22+	.2	.3	.3	.2	.2	.3	.1	.0	.0	.0	1.6	
	TOT %	2.8	3.7	1.9	2.0	2.2	2.4	.7	.9	.0	.3	17.0	
10+	0-3	1.0	.9	.3	.3	.6	.4	.3	.3	.0	2.0	6.8	
	4-10	6.6	8.0	4.3	3.4	3.3	4.2	1.8	2.6	.0	.0	38.4	
	11-21	4.7	7.3	3.1	2.9	4.3	3.8	1.0	.9	.0	.0	29.9	
	22+	.2	.3	.2	.3	1.3	2.3	.4	.1	.0	.0	3.4	
	TOT %	12.7	16.6	8.3	9.0	11.9	12.7	3.4	4.2	.0	2.0	80.3	
TOT PCT													3730
TOT OBS													100.0

MAY

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1957-1972AREA 0010 FLORIANOPOLIS
26.63 45.74

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL NH MGT	NH <3/8 ANY MGT	TOTAL OBS
0000	.0	.3	.3	3.3	8.8	4.7	3.1	.3	.0	.3	23.3	76.7	318
0600	.0	.3	.7	3.9	11.1	4.9	3.3	.7	.0	.0	23.9	76.1	306
1200	.6	.3	1.2	3.5	13.5	9.6	4.4	1.2	.0	.6	34.8	65.2	342
1800	.3	.6	.9	3.8	9.9	7.9	3.6	1.2	.3	.0	30.4	69.6	342
TOT	3	5	10	31	142	90	34	11	1	3	370	936	1308
PCT	.2	.4	.8	3.9	10.9	6.9	4.1	.8	.1	.2	28.3	71.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2 149	1/2-1 209	1-2 399	2-5 999	5-10 1999	10+ 3499	TOTAL OBS
0000	.2	.0	.2	2.3	16.7	80.6	1082
0600	.0	.0	.1	2.0	18.0	79.9	760
1200	.2	.0	.3	1.7	17.8	80.0	1178
1800	.3	.0	.6	2.2	16.3	80.6	777
TOT	6	0	12	77	635	3047	3797
PCT	.2	.0	.3	2.0	17.3	80.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING MGT (#FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 149	150-400 209	400-1000 399	1000+ 999	NH <3/8 ANY MGT	TOTAL OBS
0000	.0	1.0	8.0	16.7	79.3	312
0600	.0	1.0	4.4	19.9	79.7	296
1200	.6	2.1	6.2	29.0	68.8	338
1800	.3	1.8	7.2	24.3	66.6	334
TOT	3	19	83	290	907	1280
PCT	.2	1.3	8.5	22.7	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/04	.0	.0	.0	.0	.1	.4	.3	.1	12	.9
70/70	.0	.0	.1	.4	1.3	6.9	8.3	2.7	241	17.8
70/74	.0	.0	.1	1.8	8.3	14.3	18.7	8.8	703	52.0
69/60	.0	.0	.3	2.4	4.8	5.8	6.8	3.9	328	24.0
60/54	.0	.0	.1	.4	1.4	1.8	1.2	.4	67	4.9
59/50	.0	.0	.0	.0	.2	.8	.8	.0	6	.4
TOTAL	0	0	9	48	219	392	433	214	1397	100.0
PCT	.0	.0	.7	3.0	16.1	28.9	33.5	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
00/04	.3	.2	.0	.1	.1	.0	.3	.1	.0	.0
70/70	4.1	6.2	1.4	1.1	1.0	1.3	.8	1.3	.0	.4
70/74	7.9	12.6	7.4	7.3	6.1	3.4	2.4	2.4	.0	.3
69/60	2.4	2.3	2.3	2.9	3.5	6.8	1.2	.3	.0	.1
60/54	.1	.1	.0	.1	1.8	2.1	.7	.2	.0	.1
59/50	.1	.0	.0	.0	.0	.3	.1	.0	.0	.0
TOTAL	14.9	21.4	11.1	11.3	14.3	16.1	9.1	4.5	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	55	70	76	71	64	61	34	70.6	2064
0600	79	77	76	71	63	56	33	70.1	1270
1200	87	81	78	71	64	60	35	71.8	2193
1800	89	82	79	75	63	60	37	72.4	1223
TOT	89	80	77	72	64	60	35	71.2	6770

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.8	13.9	23.3	40.4	17.4	79		79	374
0600	.0	5.0	16.4	29.4	34.7	18.8	79		79	333
1200	.0	5.8	17.0	31.9	31.4	13.9	77		77	393
1800	.0	7.8	17.3	33.7	28.7	13.0	76		76	307
TOT	0	31	223	404	489	220	78			1399

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1937-1972

MAY

AREA 0010 FLORIANOPOLIS
26.03 49.7M

TABLE 17

PCT PRES OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	63 66	65 72	73 76	77 80	81 84	TOT	N FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.1
7/8	.0	.0	.0	.0	.2	.3	.1	.1	10	.0	.6
6	.0	.0	.0	.0	.0	.4	.1	.2	11	.0	.7
5	.0	.0	.1	.0	.6	.5	.3	.1	23	.0	1.4
4	.0	.0	.1	.0	.9	.9	1.0	.1	48	.0	3.0
3	.0	.0	.1	.3	.4	1.3	.9	.1	48	.1	3.0
2	.0	.0	.0	.4	1.6	2.9	.7	.2	93	.2	5.7
1	.0	.0	.0	.3	2.0	4.4	1.3	.0	131	.3	8.0
0	.0	.0	.1	.8	4.8	8.2	1.8	.1	231	.6	15.2
-1	.0	.0	.2	1.3	3.2	6.2	.4	.0	219	.6	13.0
-2	.0	.0	.1	1.4	6.3	4.3	.3	.0	204	.4	12.4
-3	.0	.0	.2	1.9	4.6	2.2	.0	.0	149	.2	8.9
-4	.0	.1	.6	1.9	3.6	1.3	.1	.0	122	.1	7.6
-5	.0	.1	.4	1.9	2.3	.7	.0	.0	89	.1	3.3
-6	.0	.2	.6	1.9	1.6	.1	.0	.0	68	.1	4.2
-7/-8	.0	.1	.9	2.3	.9	.3	.0	.0	70	.0	4.4
-9/-10	.0	.2	.4	.9	.4	.0	.0	.0	31	.0	1.9
-11/-13	.0	.3	.6	.3	.1	.0	.0	.0	19	.0	1.2
-14/-16	.1	.1	.1	.1	.0	.0	.0	.0	8	.0	.3
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	16	70	260	374	343	112	13	1390	40	1390
PCT	.1	1.0	4.4	16.4	36.1	34.2	7.0	.8	100.0	2.9	97.3

PERIOD: (OVER-ALL) 1943-1972

TABLE 18

PCT PRES OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	1.0	.0	.0	.0	.0	1.0	.4	.7	.2	.0	.0	.0	1.3
1-3	.0	2.2	1.8	.0	.0	.0	7.8	.3	8.4	2.2	.0	.0	.0	11.1
3-4	.0	1.4	2.3	.0	.0	.0	3.8	.0	1.9	4.2	.0	.0	.0	6.1
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	3.0	.1	.0	.0	3.0
7	.0	.0	.4	.0	.0	.0	.5	.0	.4	.2	.4	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	7.9	6.9	.3	.0	.0	15.8	.9	11.4	10.4	.7	.0	.0	29.3

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	2.3	.0	.0	.0	.0	2.3	.3	.7	.0	.0	.0	.0	1.2
1-3	.0	2.9	.0	.0	.0	.0	3.7	.0	2.3	1.0	.0	.0	.0	3.3
3-4	.0	1.7	2.3	.0	.0	.0	4.4	.0	1.8	1.3	.0	.0	.0	3.2
5-6	.0	.0	1.7	.0	.0	.0	2.4	.1	.4	1.4	.1	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.4	.0	.0	1.3
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.1	.0	.0	.0	11.2	.3	3.6	4.6	.7	.0	.0	11.3

PERIOD: (OVER-ALL) 1963-1972

MAY

TABLE 18 (CONT)

AREA 0016 FLOPIANOPOLIS
26.64 49.7M

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	1.0	.0	.0	.0	.0	1.2	.2	.9	.0	.0	.0	.0	1.1	
1-2	.0	1.3	.3	.0	.0	.0	2.0	.3	2.3	.6	.0	.0	.0	3.3	
3-4	.0	2.3	2.7	.2	.0	.0	5.4	.0	.7	2.0	.3	.0	.0	2.9	
5-6	.2	.3	1.0	.3	.0	.0	2.3	.0	.6	1.0	.1	.0	.0	1.7	
7	.0	.2	.4	.0	.0	.0	.6	.0	.2	.7	.4	.4	.0	1.7	
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.6	.0	.0	.2	1.1	.0	.0	1.3	
12	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.1	.4	.1	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.7	5.3	1.4	.2	.0	13.1	.5	4.8	4.8	3.3	.3	.0	13.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4	
1-2	.2	1.2	.2	.0	.0	.0	1.8	.2	1.1	.5	.0	.0	.0	1.8	
3-4	.0	.0	.4	.0	.0	.0	1.0	.0	.2	.3	.0	.0	.0	.7	
5-6	.0	.0	.2	.0	.0	.0	.4	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.2	.0	.0	.0	.4	.0	.0	.3	.1	.0	.0	.3	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.1	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.4	1.2	.0	.4	.0	4.7	.2	1.7	2.2	.2	.0	.0	4.2	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	4.0	8.3	.2	.0	.0	.0	9.7	583
1-2	2.2	20.1	7.3	.0	.0	.0	29.6	
3-4	.2	10.3	19.6	.6	.0	.0	28.9	
5-6	.2	1.6	11.3	.8	.0	.0	14.2	
7	.0	1.0	2.6	1.6	.0	.0	5.7	
8-9	.0	.2	2.0	1.2	.0	.0	3.4	
10-11	.0	.0	.0	1.6	.0	.0	2.8	
12	.0	.0	.0	.8	.0	.0	1.0	
13-16	.0	.0	.0	.2	.0	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	43.1	39.0	7.5	1.0	.0	100.0	306

PERIOD: (OVER-ALL) 1963-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	3.2	10.0	13.5	4.2	2.1	.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339
6-7	.1	1.3	8.1	10.6	5.9	2.4	.7	.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319
8-9	.0	.4	2.9	3.2	4.7	2.3	.0	.1	.4	.2	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	102
10-11	.0	.0	.8	.4	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
12-13	.0	.1	.0	.0	.2	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17
13	.0	.0	.0	.0	.2	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	14
INDST	2.0	2.1	3.2	1.8	1.1	1.2	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133
TOTAL	56	192	305	217	188	78	40	14	14	7	4	1	0	0	0	0	0	0	0	0	1047
PCT	5.3	14.9	29.1	20.7	18.1	7.4	3.8	1.1	1.1	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1870-1973

JUNE

AREA 0010 FLORIANOPOLIS
20.83 45.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FZLN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	1.4	.7	.0	.0	.0	.0	3.1	1.4	1.3	2.7	.0	.0	.0	91.6
NE	2.1	3.4	.3	.0	.0	.0	.2	6.3	1.1	.8	2.4	.0	.9	.0	88.9
E	6.6	4.2	1.2	.0	.0	.0	.0	12.0	4.3	1.4	1.2	.0	.0	.0	81.1
SE	4.9	3.3	1.8	.0	.0	.0	.0	10.9	6.0	.7	.9	.0	1.1	.0	81.1
S	3.6	2.8	3.6	.0	.0	.0	.0	12.0	2.3	.0	2.7	.0	.9	.0	82.1
SW	3.2	1.1	2.3	.0	.0	.0	.0	6.3	3.8	.9	2.8	.0	.1	.0	86.4
W	2.2	2.9	1.4	.0	.3	.0	.0	6.3	4.3	1.4	4.0	.0	.0	.0	83.7
NW	6.2	2.8	.0	.0	.0	.0	.0	9.0	1.4	3.3	3.2	.0	.0	.0	80.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	3.0	.0	83.0
TOT PCT	3.3	2.8	1.4	.0	.0	.0	.1	7.6	2.4	1.1	2.3	.0	.6	.0	85.9
TOT OBS:	1603														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
08003	3.2	3.2	1.0	.0	.0	.0	.2	7.7	2.0	3.3	2.2	.0	.2	.0	85.9
08009	4.7	4.1	2.3	.0	.0	.0	.0	10.4	2.3	1.9	2.3	.0	.3	.0	82.2
12013	3.2	1.9	1.7	.0	.0	.0	.0	6.7	2.3	.0	2.7	.0	.4	.0	87.8
18021	2.7	2.2	.7	.0	.0	.0	.0	3.7	3.2	.2	2.5	.0	1.0	.0	87.3
TOT PCT TOT OBS:	3.4 1643	2.8	1.3	.0	.0	.0	.1	7.3	2.3	1.1	2.3	.0	.3	.0	86.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.2	7.9	6.7	1.0	.1	.0		16.9	11.1		14.3	13.7	18.7	10.0	17.3	18.2	16.3	23.7	
NE	1.3	9.6	8.0	1.4	.1	.0		21.1	11.3		23.6	22.3	21.2	20.3	21.3	17.7	20.1	22.4	
E	.0	4.6	3.1	.7	.0	.0		9.1	10.8		9.9	9.9	10.1	14.3	6.8	7.3	8.4	2.6	
SE	.0	4.7	2.8	.7	.1	.0		9.1	10.6		9.7	10.7	9.3	10.0	8.0	8.3	8.3	6.6	
S	1.1	6.9	3.4	1.4	.1	.0		12.9	12.4		13.9	12.1	12.1	13.7	12.3	12.4	14.3	14.3	
SW	.0	4.6	6.2	2.3	.4	.0		14.3	14.3		13.8	13.7	12.8	10.7	13.3	14.9	13.3	10.3	
W	.0	3.4	1.6	.7	.1	.0		3.6	11.7		4.8	3.2	3.8	7.9	3.8	6.0	3.6	3.3	
NW	.0	3.8	2.2	.4	.1	.0		7.3	10.0		3.3	6.2	6.2	4.3	7.8	10.1	8.3	9.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3							3.3	0		4.4	3.4	3.6	2.9	2.7	2.7	2.7	2.6	
TOT OBS	774	2943	2354	806	61	0	6938		11.3		1227	910	1238	33	1240	998	1232	33	
TOT PCT	1.7	42.4	34.8	9.7	.9	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	4.3	8.8	3.4	.2	0	16.7	11.1	19.0	18.5	17.8	16.6		
NE	3.0	11.9	4.0	.3	0	21.1	11.3	23.0	21.3	19.8	20.2		
E	2.3	4.8	1.6	.2	.0	9.1	10.8	9.9	10.2	8.2	8.3		
SE	2.7	4.7	1.3	.1	.0	9.1	10.6	10.1	9.3	8.2	8.4		
S	3.3	3.7	3.3	.4	0	12.9	12.4	13.1	12.2	12.3	14.3		
SW	2.7	6.1	4.3	1.2	.1	14.3	14.3	13.3	12.8	16.0	13.3		
W	1.9	2.2	1.1	.3	0	3.6	11.7	3.0	3.9	3.9	3.6		
NW	2.7	3.4	1.1	.1	.0	7.3	10.0	3.7	6.1	8.8	8.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.3					3.3	.0	4.8	3.3	2.7	2.7		
TOT OBS	2008	3286	1428	201	13	6938	11.3	2137	1273	2238	1290		
TOT PCT	28.9	47.4	20.6	2.9	.2		100.0	100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1870-1973

JUNE

AREA 0010 FLORIANOPOLIS
26.4S 49.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.8	7.9	43.6	38.4	7.2	1.2	.0	10.8	100.0	2127
0600Z	3.3	6.9	44.3	39.2	9.2	.9	.0	11.3	100.0	1273
1200Z	2.7	7.5	41.2	38.0	10.0	.5	.0	11.6	100.0	2238
1800Z	2.7	6.2	40.6	38.8	8.7	1.0	.0	11.6	100.0	1290
TOT	244	330	2943	2554	606	61	0	11.3		6938
PCT	3.3	7.6	42.4	36.8	8.7	.9	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.0	3.2	5.4	1.9		3.7
NE	8.7	5.3	8.2	4.4		4.2
E	2.6	2.6	2.6	2.1		4.5
SE	2.2	1.0	2.3	2.1		4.9
S	3.3	2.8	4.1	3.2		3.2
SW	3.8	2.2	3.4	3.1		4.3
W	2.0	.6	1.2	.7		3.8
NW	1.4	.7	.7	1.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.2	.3		3.5
TOT OBS	373	220	332	250	1175	4.4
TOT PCT	31.7	18.7	28.3	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <4/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.7	1.9	.7	.6	.1	.0	.1	13.4	
NE	.2	.0	.1	2.0	2.3	1.1	1.1	.3	.3	.7	19.0	
E	.7	.0	.0	.8	1.0	.8	.3	.4	.0		6.3	
SE	.2	.0	.2	.7	1.1	.6	.9	.3	.0	.0	4.4	
S	.9	.0	.6	2.0	2.2	1.3	.6	.2	.1	.0	8.2	
SW	.1	.1	.3	1.0	1.9	.3	.3	.4	.0	.0	8.0	
W	.1	.0	.0	.3	.3	.1	.1	.1	.0	.0	3.3	
NW	.0	.1	.0	.6	.3	.1	.1	.1	.0	.0	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	1.1	
TOT OBS	12	2	15	94	133	62	43	21	4	3	784	1175
TOT PCT	1.0	.2	1.3	8.2	11.3	5.3	3.7	1.8	.3	.3	64.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30"0	>0
>6500	.4	.3	.6	.6	.6	.6	.6	.6
>4000	1.2	2.1	2.3	2.3	2.3	2.3	2.3	2.3
>3000	3.8	3.2	3.6	3.7	3.7	3.7	3.7	3.7
>2000	7.7	10.3	10.9	11.0	11.0	11.0	11.0	11.0
>1000	17.3	21.7	22.4	22.5	22.5	22.5	22.5	22.5
>600	22.1	29.4	30.4	30.6	30.6	30.6	30.6	30.6
>300	22.4	30.4	31.3	31.8	31.8	31.8	31.8	31.8
>150	22.4	30.7	31.8	32.0	32.0	32.0	32.0	32.0
>0	22.7	31.2	32.4	32.7	32.7	32.0	32.0	32.0
TOTAL	270	371	383	389	389	383	383	383

TOTAL NUMBER OF OBS: 1190

PCT FREQ NM <5/8: 67.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS	
10.7	14.3	15.5	12.3	8.7	6.0	6.0	6.0	13.4	.8	1269

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1970-1973

JUNE

AREA 0010 FLORIANOPOLIS
26.03 49.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.4	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.0	.3	.2	.0	.1	.0	.0	.0	.6	
	NO PCP	.1	.4	.0	.1	.3	.3	.0	.0	.0	.1	1.4	
	TOT %	.1	.5	.0	.3	.4	.3	.1	.0	.0	.1	2.0	
5<10	PCP	.3	1.2	.9	.3	1.0	.4	.2	.1	.0	.0	4.7	
	NO PCP	3.0	3.3	1.7	2.0	2.8	3.3	1.2	1.0	.0	.1	20.5	
	TOT %	3.3	4.5	2.6	2.3	3.8	3.7	1.3	1.1	.0	.1	25.2	
10+	PCP	.2	.4	.1	.1	.4	.4	.0	.3	.0	.1	2.0	
	NO PCP	13.6	19.0	6.1	3.3	9.8	9.3	2.8	3.1	.0	.9	69.6	
	TOT %	13.8	19.4	6.2	3.4	10.2	9.7	2.8	3.3	.0	1.0	71.6	
TOT OBS													
TOT PCT													
		17.3	26.2	9.0	8.6	14.8	13.8	4.3	4.3	.0	1.2	100.0	1804

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.4	
1/2<1	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
2<5	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.1	.2	.1	.3	.1	.0	.0	.0	1.1	
	11-21	.1	.3	.1	.2	.4	.1	.0	.0	.0	.0	1.2	
	22+	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.3	.6	.2	.3	.6	.4	.1	.1	.0	.0	2.8	
5<10	0-9	.1	.1	.1	.2	.1	.1	.1	.1	.0	.3	1.2	
	4-10	1.0	1.8	.7	.7	.7	1.0	.3	.4	.0	.0	7.0	
	11-21	1.7	2.0	.9	.6	1.4	1.3	.3	.3	.0	.0	8.9	
	22+	.1	.3	.4	.3	.3	.7	.3	.0	.0	.0	2.9	
	TOT %	3.0	4.3	2.1	1.9	2.7	3.0	1.2	1.1	.0	.3	19.3	
10+	0-9	1.2	1.2	.4	.7	.4	.6	.8	1.0	.0	2.1	8.6	
	4-10	7.0	8.3	3.7	3.2	3.7	3.3	2.0	3.1	.0	.0	34.6	
	11-21	3.3	7.1	1.9	1.4	4.0	3.3	1.2	1.8	.0	.0	28.4	
	22+	.6	.9	.3	.2	.6	1.9	.4	.3	.0	.0	5.2	
	TOT %	14.3	17.2	6.2	5.8	9.2	11.3	4.3	6.1	.0	2.1	76.8	
TOT OBS													
TOT PCT													
		17.7	22.2	8.7	8.2	12.7	14.9	5.9	7.4	.0	2.4	100.0	3677

JUNE

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1870-1973AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

MOOR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	TOTAL OBS	NM <5/8 ANY MOOR	TOTAL OBS
0000	1.4	.0	.7	7.8	8.4	3.7	2.7	1.7	.0	.3	26.7	73.3	296									
0600	2.1	.0	1.4	7.4	11.7	3.0	3.2	1.1	.4	.4	32.6	67.4	282									
1200	.3	.0	2.1	8.0	14.6	7.4	3.9	1.3	.3	.0	38.7	61.3	336									
1800	.3	.3	.6	8.1	9.3	4.7	4.3	2.5	.6	.3	31.1	68.9	322									
TOT	12	3	13	97	137	63	44	21	4	3	401	633	1236									
PCT	1.0	.2	1.2	7.8	11.1	5.3	3.6	1.7	.3	.2	32.4	67.6	100.0									

TABLE 11

PERCENT FREQUENCY VSBY (FM) BY HOUR

MOOR (GMT)	<1/2 149	1/2-1 299	1-2 399	2-4 499	4-10 599	10+ 699	TOTAL OBS
0000	.6	.0	.2	2.4	20.0	76.9	1069
0600	.4	.1	.3	4.0	19.3	75.4	733
1200	.1	.2	.4	9.0	20.2	70.1	1146
1800	.6	.3	.1	4.2	17.8	79.0	773
TOT	18	3	12	105	726	2634	3717
PCT	.4	.1	.3	2.8	19.3	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

MOOR (GMT)	<150 149	<500 299	<1000 399	1000+ 499	NM <5/8 AND 5+	TOTAL OBS
0000	1.4	2.1	10.9	13.8	73.3	283
0600	2.2	3.4	12.0	22.8	65.2	267
1200	.3	3.1	13.6	26.2	60.2	324
1800	.3	1.3	10.3	21.3	68.2	314
TOT	12	29	140	238	792	1190
PCT	1.0	2.4	11.8	21.7	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/60	.0	.1	.0	.0	.2	.1	.0	.0	3	.3
70/70	.0	.0	.1	.1	.5	1.4	1.8	.0	37	4.8
75/75	.0	.0	.1	1.3	4.3	9.0	17.7	11.9	388	44.9
80/80	.0	.0	.1	2.1	6.1	8.0	16.7	8.7	427	33.7
85/85	.0	.0	.3	.8	3.2	2.4	2.6	2.4	142	11.9
90/90	.0	.0	.0	.1	.6	.6	.9	.3	29	2.4
95/95	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	9	32	178	268	403	283	1197	100.0
PCT	.0	.0	.8	4.9	14.9	22.4	33.8	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
1.0	2.9	.4	.1	.1	.1	.0	.1	.0	.0
9.4	17.7	3.3	2.0	2.8	2.8	1.7	1.4	.0	.0
4.2	6.0	3.2	3.0	7.7	2.6	1.3	1.9	.0	.0
1.1	.7	.4	.8	2.8	4.4	1.1	.4	.0	.0
.1	.0	.0	.0	.8	1.2	.3	.1	.0	.1
.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
13.8	27.4	9.6	9.0	14.2	14.3	4.4	3.9	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOOR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	87	76	74	69	60	54	49	68.1	2143
0600	80	73	74	68	59	54	48	67.8	1200
1200	83	79	76	70	60	53	51	69.2	2100
1800	84	79	77	70	62	58	54	69.8	1230
TOT	87	78	79	69	60	53	48	68.7	6661

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY MOOR

MOOR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.6	14.3	21.7	31.6	29.6	81	332		
0600	.0	4.3	14.7	16.8	32.3	31.9	81	270		
1200	.0	6.4	15.7	23.2	34.4	19.9	79	332		
1800	.0	7.3	15.4	26.4	32.4	19.3	78	284		
TOT	0	67	106	272	412	294	80	1231		

JUNE

PERIOD: (PRIMARY) 1919-1973
(OVER-ALL) 1670-1973

TABLE 17

AREA 0010 FLORIANOPOLIS
26.6S 45.7WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	75 78	77 80	81 84	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.0	3	.0	.4
9/10	.0	.0	.0	.1	.0	.1	.0	.1	.0	4	.0	.3
7/8	.0	.0	.0	.2	.3	.1	.2	.3	.1	17	.0	1.2
6	.0	.0	.0	.0	.1	.1	.1	.1	.1	8	.0	.6
5	.0	.0	.0	.0	.1	.6	.6	.1	.0	18	.0	1.3
4	.0	.0	.0	.1	.3	.9	1.8	.1	.0	47	.0	3.3
3	.0	.0	.0	.0	.4	.6	.9	.1	.0	33	.0	2.3
2	.0	.0	.0	.1	1.1	2.8	2.1	.2	.0	88	.1	6.2
1	.0	.0	.1	.3	1.4	4.0	2.8	.1	.0	121	.3	8.3
0	.0	.0	.0	.6	2.8	8.0	4.8	.0	.0	230	.6	19.8
-1	.0	.0	.1	.9	3.0	6.8	3.1	.1	.0	193	.6	12.3
-2	.0	.0	.1	1.1	3.6	8.0	1.6	.0	.0	172	.4	11.8
-3	.0	.0	.1	1.1	3.0	3.3	.4	.0	.0	111	.4	7.7
-4	.0	.0	.3	.9	3.1	2.9	.3	.1	.0	112	.0	8.0
-5	.0	.0	.1	1.8	2.4	2.0	.3	.0	.0	91	.0	6.3
-6	.0	.0	.3	.7	1.8	.6	.1	.0	.0	48	.0	3.4
-7/-8	.0	.1	.8	1.3	1.3	.6	.0	.0	.0	60	.1	4.1
-9/-10	.0	.1	.4	.6	.4	.1	.0	.0	.0	23	.0	1.6
-11/-13	.0	.1	.4	.4	.1	.1	.0	.0	.0	16	.0	1.1
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0	3	.0	.2
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	1	8	41	144	359	273	22	2	2	1407	2.3	137.7
PCT	.1	.8	2.9	10.2	25.3	39.6	19.4	1.6	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1948-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.7	.7	.0	.0	.0	.0	1.3	41	.3	1.3	.3	.0	.0	.0	2.0
1-2	.7	2.7	.4	.0	.0	.0	3.3	1-2	.1	5.7	1.1	.0	.0	.0	6.8
3-4	.0	2.7	2.6	.2	.0	.0	5.6	3-4	.0	3.5	4.6	.3	.0	.0	8.4
5-6	.0	.2	3.8	.0	.0	.0	4.0	5-6	.0	.5	3.9	.7	.0	.0	5.1
7	.0	.0	.8	.0	.0	.0	.8	7	.0	.0	2.1	.3	.0	.0	2.4
8-9	.0	.0	.0	.4	.0	.0	.4	8-9	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.4	.0	.0	.4	10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.3	7.5	1.1	.0	.0	15.8	TOT PCT	.4	11.0	13.2	1.8	.0	.0	26.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	.7	.0	.0	.0	.0	.7	41	.5	.0	.0	.0	.0	.0	.5
1-2	.4	3.6	.8	.0	.0	.0	4.3	1-2	.2	2.4	.0	.0	.0	.0	2.6
3-4	.0	2.1	2.7	.0	.0	.0	4.8	3-4	.2	.8	.7	.0	.0	.0	1.7
5-6	.0	.3	1.0	.2	.0	.0	1.7	5-6	.0	.2	.5	.0	.0	.0	.7
7	.0	.0	1.4	1.0	.0	.0	2.3	7	.0	.0	.2	.3	.0	.0	.7
8-9	.0	.0	.0	.4	.2	.0	.7	8-9	.0	.0	.3	.0	.8	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.2	.3	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	9.8	1.6	.2	.0	14.6	TOT PCT	1.0	3.4	1.9	1.2	.2	.0	7.7

PERIOD: (OVER-ALL) 1963-1979

JUNE

AREA 0010 FLORIANOPOLIS
26.61 45.7W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.5	.5	.0	.0	.0	.0	1.0
1-2	.2	3.2	1.8	.0	.0	.0	5.2	.1	2.0	1.5	.0	.0	.0	3.6
3-4	.0	2.0	3.9	.0	.0	.0	5.9	.0	1.1	2.2	.2	.0	.0	3.7
5-6	.0	.2	1.9	.2	.0	.0	1.9	.0	.3	1.2	.2	.0	.0	1.7
7	.0	.0	.4	.2	.0	.0	.7	.0	.0	.3	.2	.0	.0	.8
8-9	.0	.0	.6	.2	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	8.3	1.0	.0	.0	15.2	.7	3.9	5.6	.8	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.7	.0	.0	.0	1.7	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.2	.7	.0	.0	.0	.9	.0	.3	.1	.0	.0	.0	.3	
5-6	.0	.2	.4	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.0	2.0	.2	.2	.0	3.8	.0	1.4	1.3	.0	.1	.0	2.8	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TCT
<1	3.6	3.7	.3	.0	.0	.0	9.7	385
1-2	2.5	21.1	3.8	.0	.0	.0	29.4	
3-4	.2	12.9	17.1	.0	.0	.0	30.8	
5-6	.0	2.1	12.0	1.4	.0	.0	15.3	
7	.0	.0	6.7	2.3	.0	.0	9.0	
8-9	.0	.0	1.6	1.2	.3	.0	3.2	
10-11	.0	.0	.3	1.2	.0	.0	1.6	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	432
TOT PCT	8.3	39.4	44.2	7.4	.7	.0	100.0	

PERIOD: (OVER-ALL) 1979-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	48.2W HGT
<1	2.2	11.1	13.4	4.6	1.5	.0	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	321
1-2	.0	2.0	9.1	9.8	4.6	2.0	1.4	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	276
3-4	.0	.0	2.0	4.4	3.3	2.3	1.2	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196
5-6	.0	.0	.2	1.4	1.0	1.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37
7	.0	.0	.0	.3	.7	.4	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26
8-9	.0	.0	.0	.1	.2	.6	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	13
10-11	2.6	1.8	3.0	1.8	1.3	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	112
TOTAL	48	146	272	206	139	71	39	11	10	1	0	1	0	0	0	0	0	0	0	0	941
PCT	4.8	19.8	28.9	21.9	14.8	7.5	4.1	1.2	1.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0

JULY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1894-1973AREA 0010 FLORIANOPOLIS
26.83 49.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WMO DIR	RAIN	RAIN SMWR	DRZL	PRZL PCPN	SNOW	OTHER PRZL PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.5	.7	.9	.0	.0	.0	.0	2.1	.3	1.3	2.7	.0	1.9	.0	91.8
NE	1.4	.8	.0	.0	.0	.0	.0	2.7	1.2	.8	3.1	.0	3.1	.0	89.8
E	2.8	2.1	.6	.0	.0	.0	.0	5.4	2.2	.0	.4	1.1	2.1	.0	88.7
SE	9.9	4.9	2.0	.0	.0	.0	.0	11.4	3.2	.7	4.3	.0	.8	.0	79.4
S	9.2	1.2	1.1	.0	.0	.0	.0	7.2	3.0	.4	1.1	.0	1.4	.0	87.3
SW	2.1	1.7	1.9	.0	.0	.0	.0	5.7	3.0	1.0	1.0	.0	.8	.0	88.3
W	.0	.0	2.2	.0	.0	.0	.0	2.2	1.1	.0	4.4	.0	2.6	.0	89.8
NW	2.2	1.1	2.4	.0	.0	.0	.0	5.7	1.4	3.3	3.4	1.1	1.9	.0	81.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.2	6.3	3.2	3.2	.0	80.6
TOT PCT OBS:	2.4 1858	1.3	1.2	.0	.0	.0	.0	4.8	1.9	.8	2.8	.2	1.9	.0	87.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SMWR	DRZL	PRZL PCPN	SNOW	OTHER PRZL PCPN	MAIL	PCPN AT DS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	2.7	1.3	1.9	.0	.0	.0	.0	5.6	2.1	1.3	2.7	.0	1.5	.0	87.0
0600	2.8	.9	1.4	.0	.0	.0	.0	4.9	2.1	1.6	1.2	.8	.9	.0	88.7
1200	1.8	1.7	.9	.0	.0	.0	.8	4.4	1.3	.4	2.6	.2	3.3	.0	87.9
1800	2.3	1.1	.7	.0	.0	.0	.0	4.1	2.0	.0	3.2	.2	1.6	.0	88.9
TOT PCT TOT OBS:	2.4 1889	1.3	1.2	.0	.0	.0	.0	4.8	1.9	.8	2.4	.2	1.9	.0	88.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	06	09	12	18	21	
N	1.1	7.3	6.5	1.3	.0	.0		16.3	11.3	14.9	14.7	16.8	10.0	18.0	16.2	17.6	20.7
NE	1.3	10.0	19.0	8.9	.0	.0		23.4	12.0	24.7	25.0	22.4	23.3	23.1	21.4	23.6	28.4
E	.8	5.5	3.4	.6	.0	.0		9.2	9.2	11.0	10.3	8.5	11.3	6.7	9.4	8.7	9.6
SE	.0	4.7	3.3	.6	.1	.0		8.4	10.6	11.3	11.3	8.6	7.5	7.4	6.6	6.4	6.6
S	.0	4.0	3.3	1.7	.1	.0		13.2	13.0	14.1	12.7	13.1	14.3	13.2	11.6	14.1	6.7
SW	.0	4.3	3.3	2.6	.3	.0		14.1	13.0	13.0	11.2	14.9	11.6	13.6	14.9	14.2	11.3
W	.0	2.1	1.6	.6	.1	.0		3.2	12.1	3.8	3.0	3.0	3.0	6.0	6.8	4.7	3.8
NW	.7	3.2	1.8	.3	.0	.0		6.2	9.9	3.9	3.9	6.4	8.8	6.9	8.2	6.0	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALF	3.1							3.1	.0	3.1	2.7	4.3	4.8	3.2	2.9	1.6	1.9
TOT OBS:	680	2789	2403	640	38	4	6340		11.6	1206	760	1141	38	1139	890	1161	32
TOT PCT	10.3	42.1	34.7	9.8	.9	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	09	12	18
N	4.2	8.2	3.6	.3	.0			16.3	11.3	14.9	13.7	17.1	17.7
NE	3.1	12.3	3.6	.3	.0			23.4	12.0	24.7	22.3	22.3	23.8
E	3.0	3.2	.9	.1	.0			9.2	9.2	11.0	9.0	7.9	8.8
SE	2.4	3.4	1.3	.1	.0			8.4	10.6	11.3	8.7	7.9	9.4
S	2.7	6.4	3.6	.3	.0			13.2	13.0	14.1	13.2	12.3	13.9
SW	2.8	3.3	4.6	1.3	.1			14.1	13.0	13.0	14.7	13.3	14.1
W	1.8	1.9	1.2	.3	.1			3.2	12.1	3.8	3.1	6.4	4.8
NW	2.3	2.6	1.0	.0	.0			6.2	9.9	3.9	6.4	7.8	3.9
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALF	3.1							3.1	.0	3.1	4.3	3.1	1.6
TOT OBS:	1788	3110	1431	204	16	6340		11.6		1206	1191	2149	1213
TOT PCT	27.3	47.3	21.9	3.1	.2	100.0			100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1954-1973

JULY

AREA 0010 FLORIANPOLIS
26.65 49.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN	PCT	TOTAL
	0-2	3-4	5-7	8 & 9	0-9	0-9	0-9	0-9
0000	3.3	8.0	43.4	34.3	9.5	1.2	11.5	100.0
0009	4.3	7.1	41.9	36.2	10.0	.4	11.3	100.0
1200	3.1	7.3	42.4	37.0	9.4	.7	11.6	100.0
1800	1.6	6.6	39.7	40.2	10.6	1.2	12.3	100.0
TOT	204	461	2759	2403	640	3	11.6	6349
PCT	3.1	7.3	42.1	36.7	9.8	.9	11.6	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN
	0-2	3-4	5-7	8 & 9	0-9	0-9
N	7.8	2.6	9.8	2.1	3.4	3.4
NE	10.1	5.5	6.3	2.9	3.6	3.6
E	3.3	1.2	3.3	1.6	4.3	4.3
SE	1.9	1.0	2.3	2.4	3.4	3.4
S	3.3	2.3	3.0	4.4	3.1	3.1
SW	4.2	3.1	3.3	4.0	4.7	4.7
W	1.6	.4	.6	.8	3.9	3.9
NW	1.6	.6	1.3	.8	4.3	4.3
VAR	.0	.0	.0	.0	.0	.0
CALM	1.0	.2	.2	.0	3.6	3.6
TOT OBS	461	226	379	238	1304	4.2
TOT PCT	34.6	17.1	26.4	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	399	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.2	.3	1.7	1.0	.4	.2	.1	.1	12.6	
.2	.2	.0	1.1	2.9	.9	.6	.2	.1	.0	18.6	
.1	.0	.2	.3	1.2	.9	.3	.1	.1	.1	6.4	
.0	.0	.3	.8	1.4	1.1	.9	.0	.0	.0	3.2	
.1	.0	.6	1.3	2.9	1.6	.8	.0	.1	.1	7.8	
.2	.0	.9	1.4	2.6	1.4	.9	.1	.0	.2	9.4	
.0	.0	.1	.4	.2	.2	.2	.1	.0	.1	2.1	
.2	.0	.0	.1	.7	.2	.9	.2	.0	.1	2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	1.4	
.8	.2	.3	.8	1.8	.9	.2	.1	.5	.7	8.2	1324
.6	.2	1.9	6.1	13.9	7.4	3.9	.8	.4	.9	64.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >5
= OR >5000	.7	.9	.9	.9	.9	.9	.9	.9	.9
= OR >3000	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >2000	4.6	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >1000	10.1	12.3	13.0	13.0	13.0	13.0	13.0	13.0	13.0
= OR >500	20.4	26.2	26.9	27.0	27.0	27.0	27.0	27.0	27.0
= OR >300	24.6	32.1	32.9	33.0	33.0	33.1	33.1	33.1	33.1
= OR >150	23.3	33.6	34.7	34.8	34.8	34.9	34.9	34.9	34.9
= OR >50	23.6	33.9	34.8	35.0	35.0	35.1	35.1	35.1	35.1
= OR >0	23.8	34.2	35.2	35.4	35.4	35.5	35.6	35.6	35.6
TOTAL	344	437	470	472	472	474	475	475	475

TOTAL NUMBER OF OBS: 1335

PCT FREQ NM <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF CUM CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
										OBS
17.2	12.7	13.6	11.4	9.4	6.4	6.7	9.4	13.6	.5	1416

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1854-1973

JULY

AREA 0010 FLORIANOPOLIS
26.63 49.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.2	.0	.1	.4	
	TOT %	.1	.1	.1	.0	.1	.0	.0	.2	.0	.1	.6	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.5	
2<5	PCP	.1	.1	.1	.0	.1	.0	.2	.0	.0	.0	.6	
	NO PCP	.9	.8	.0	.2	.4	.1	.1	.1	.0	.0	2.2	
	TOT %	.9	.9	.1	.2	.5	.1	.1	.1	.0	.0	2.7	
5<10	PCP	.2	.3	.3	.4	.4	.5	.0	.1	.0	.0	2.6	
	NO PCP	9.9	8.5	2.3	1.8	2.2	3.7	.8	1.1	.0	.3	23.0	
	TOT %	4.1	7.1	2.9	2.2	2.6	4.2	.9	1.2	.0	.3	25.6	
10+	PCP	.1	.0	.0	.3	.4	.4	.0	.0	.0	.0	1.2	
	NO PCP	11.3	17.4	6.3	5.1	11.0	11.1	2.6	3.3	.0	1.1	69.3	
	TOT %	11.3	17.4	6.4	5.4	11.4	11.5	2.7	3.3	.0	1.1	70.5	
TOT OBS													
TOT PCT													
		16.1	25.6	9.6	8.1	14.6	15.8	3.7	5.0	.0	1.7	100.0	1853

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.1	.1	.0	.0	.1	.0	.2	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.1	.0	.2	.1	.1	.0	.2	.0	.0	1.0	
	11-21	.2	.2	.1	.2	.3	.2	.0	.0	.0	.0	1.2	
	22+	.1	.1	.1	.1	.1	.2	.0	.1	.0	.0	.7	
	TOT %	.5	.4	.2	.5	.4	.4	.1	.3	.0	.1	3.1	
5<10	0-3	.2	.2	.2	.1	.1	.1	.1	.1	.0	.5	1.6	
	4-10	1.8	1.9	.6	.8	.9	.9	.4	.5	.0	.3	7.1	
	11-21	1.3	1.8	.7	.7	1.3	1.0	.2	.4	.0	.0	7.3	
	22+	.2	.4	.1	.0	.4	1.2	.1	.1	.0	.0	2.4	
	TOT %	2.9	4.3	1.6	1.7	2.4	3.1	.7	1.0	.0	.8	18.4	
10+	0-3	.8	1.1	.5	.6	.4	.4	.5	.5	.0	1.7	6.7	
	4-10	9.9	8.1	4.6	3.3	4.4	3.7	1.6	2.4	.0	.0	34.3	
	11-21	5.2	8.7	2.0	1.8	4.1	3.0	1.3	1.3	.0	.0	28.5	
	22+	.7	1.1	.3	.4	1.1	2.1	.3	.2	.0	.0	6.4	
	TOT %	12.6	19.1	7.4	6.3	10.2	11.2	3.9	4.4	.0	1.7	76.9	
TOT OBS													
TOT PCT													
		16.1	24.2	9.6	8.7	13.8	14.9	4.8	5.8	.0	2.4	100.0	2889

JULY

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1854-1973AREA 0010 FLORIANPOLIS
26.65 45.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	2000	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	899	1199	1499	1799	2099	2399	2699	2999	3299	3599	3899			
00003	1.2	.0	2.2	5.3	10.6	5.3	2.1	.3	.0	.0	.0	.0	.0	.0	28.2	71.8	341
06009	.3	.0	1.6	5.1	16.8	5.7	4.4	.9	.3	.3	.3	.3	.3	.3	35.4	64.6	316
12015	.3	.3	1.9	6.8	14.9	8.7	4.3	.5	.3	.3	.3	.3	.3	.3	38.3	61.7	348
18021	.5	.3	1.4	6.3	11.8	8.3	4.4	1.1	.3	.8	.3	.3	.3	.3	35.4	64.6	364
TOT	8	2	25	82	187	99	93	10	5	7	478					911	1389
PCT	.6	.1	1.9	5.9	13.9	7.1	3.8	.7	.4	.5	34.4					65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL CNS
00003	.9	.1	.4	2.3	20.0	75.1	1139
06009	.9	.1	.9	3.6	17.4	77.1	782
12015	1.0	.1	.4	2.5	18.4	77.3	1198
18021	.7	.1	.3	3.3	17.3	77.8	897
TOT	39	4	25	123	723	3010	3920
PCT	.9	.1	.6	3.1	18.4	76.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<300	<600	<1000	<1000 AND 3+	NM <5/8 AND 3+	TOTAL OBS
(GMT)							
00003	1.2	4.0	11.3	19.9	68.8	327	
06009	.3	2.0	9.9	27.7	62.4	303	
12015	.0	2.3	11.0	30.0	58.7	333	
18021	.4	2.3	11.1	27.0	61.9	332	
TOT	7	38	148	350	840	1335	
PCT	.5	2.7	10.9	26.2	62.9	100.0	

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/86	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
75/79	.0	.0	.0	.1	.2	.8	.3	.6	28	1.9
70/74	.0	.0	.1	.9	3.1	7.3	11.1	3.6	402	28.0
65/69	.0	.0	.4	1.4	3.5	8.6	14.3	12.2	608	42.3
60/64	.0	.0	.3	1.1	3.4	4.3	6.6	4.7	326	22.7
55/59	.0	.0	.1	.9	.8	.9	1.1	1.0	83	4.4
50/54	.0	.0	.0	.1	.1	.1	.0	.3	9	.6
TOTAL	0	0	14	33	218	320	480	331	1437	100.0
PCT	.0	.0	1.0	3.7	15.2	22.3	33.4	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/86	.0	.1	.0	.0	.0	.0	.0	.0	.0
75/79	.4	1.2	.2	.0	.1	.0	.1	.0	.0
70/74	6.7	11.0	2.8	1.0	1.8	1.6	.7	2.1	.0
65/69	6.3	11.7	3.6	4.2	5.2	3.4	1.0	2.0	.0
60/64	2.2	2.3	1.4	2.2	6.0	6.2	1.0	.7	.0
55/59	.1	.1	.1	.3	1.7	1.7	.2	.0	.0
50/54	.0	.0	.0	.0	.0	.3	.1	.0	.0
TOTAL	13.7	26.4	10.1	7.7	14.9	15.4	3.0	4.9	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	77	74	73	67	59	55	50	66.3	2002
06009	78	73	72	66	58	53	47	65.9	1192
12015	84	78	75	68	59	54	48	67.4	2112
18021	84	78	75	69	60	56	51	68.2	1189
TOT	84	77	74	67	59	54	47	67.0	6495

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	3.6	10.2	21.1	39.3	23.9	82	394		
06009	.0	3.6	13.2	18.2	30.6	33.3	82	333		
12015	.0	5.1	13.4	23.3	32.1	21.1	79	408		
18021	.0	7.1	18.6	23.7	30.7	18.0	78	323		
TOT	0	70	319	325	487	337	80	1438		

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1894-1973

JULY

AREA 0010 FLORIANOPOLIS
26.62 45.8W

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.1	3	.0	.3
9/10	.0	.0	.0	.0	.1	.0	.2	.0	.0	4	.0	.3
7/8	.0	.0	.0	.1	.1	.5	.2	.1	.0	17	.1	1.0
6	.0	.0	.0	.0	.1	.1	.1	.0	.0	3	.0	.3
5	.0	.1	.1	.3	.5	.8	.7	.1	.0	41	.0	2.6
4	.0	.3	.1	.5	.8	1.3	.4	.1	.0	33	.1	2.3
3	.0	.1	.0	.4	1.1	.9	.6	.1	.0	32	.2	2.1
2	.0	.0	.1	1.5	2.3	2.2	.9	.1	.0	112	.2	6.9
1	.0	.1	.1	1.3	2.3	3.8	1.8	.0	.0	192	.2	9.4
0	.0	.1	.1	2.1	4.8	6.7	1.1	.0	.0	233	.3	14.2
-1	.0	.0	.3	1.3	4.0	5.2	1.1	.0	.0	188	.2	11.7
-2	.0	.1	.5	2.0	4.0	3.0	.2	.0	.0	155	.3	9.5
-3	.0	.1	.6	2.0	4.3	2.6	.1	.0	.0	156	.3	9.5
-4	.0	.3	.6	2.2	3.7	1.3	.0	.0	.0	129	.2	7.9
-5	.0	.0	.4	1.7	3.8	.8	.1	.0	.0	93	.2	5.7
-6	.0	.1	.6	2.0	.8	.2	.0	.0	.0	56	.1	3.5
-7/-8	.0	.4	.8	2.3	1.3	.1	.0	.0	.0	77	.0	4.9
-9/-10	.0	.2	.5	1.0	.3	.0	.0	.0	.0	31	.1	1.9
-11/-13	.1	.3	.3	.4	.0	.1	.0	.0	.0	18	.0	1.1
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	29	81	334	479	124	10	1	1588	41	1346	
PCT	.1	1.8	5.1	21.1	33.4	30.0	7.8	.6	.1	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT PRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.1	.0	.0	.0	.0	.3	.2	1.0	.0	.0	.0	.0	1.3
1-2	.0	3.2	1.0	.0	.0	.0	4.1	.2	3.7	1.6	.0	.0	.0	5.5
3-4	.0	1.1	2.9	.0	.0	.0	3.0	.0	2.3	7.3	.4	.0	.0	10.1
5-6	.0	.1	2.3	.0	.0	.0	2.1	.0	.2	3.2	1.2	.0	.0	6.7
7	.0	.0	1.4	.8	.8	.0	2.8	.0	.0	1.8	.4	.0	.0	2.5
8-9	.0	.1	.3	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.7	9.1	1.8	.0	.0	16.0	.4	7.3	16.3	2.3	.0	.0	26.3

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.3	.0	.0	.0	.0	.3	.2	.4	.0	.0	.0	.0	.7
1-2	.3	2.9	.4	.0	.0	.0	3.7	.0	2.2	.0	.0	.0	.0	2.3
3-4	.0	1.8	1.4	.0	.0	.0	3.2	.0	.0	1.1	.0	.0	.0	2.3
5-6	.0	.2	1.3	.1	.0	.0	1.6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.9	.5	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.2	.2	.4	.0	.0	.8
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.4	4.4	1.6	.0	.0	11.8	.3	4.1	2.0	.8	.0	.0	7.1

PERIOD: (OVER-ALL) 1943-1973

JULY

TABLE 10 (CONT)

AREA 0010 FLORIANOPOLIS
26.68 43.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.2	.0	.0	.0	.0	.5	.4	.8	.0	.0	.0	.0	1.0
1-2	.4	3.2	1.1	.0	.0	.0	4.7	.0	2.3	.4	.0	.0	.0	2.7
3-4	.0	1.8	1.5	.1	.0	.0	3.5	.0	1.4	2.0	.2	.0	.0	3.7
5-6	.0	.1	2.5	.3	.0	.0	3.0	.0	.6	3.7	1.3	.0	.0	5.5
7	.0	.0	.7	.1	.0	.0	.8	.0	.0	.6	.0	.4	.0	1.1
8-9	.0	.4	.3	.0	.0	.0	.7	.0	.0	.8	.0	.2	.0	1.0
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.7	6.3	1.0	.0	.0	13.7	.4	4.8	7.6	2.3	1.0	.0	10.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.1	.0	.0	.0	.0	.3	.2	.4	.0	.0	.0	.0	.7	
1-2	.0	.3	.0	.0	.0	.0	.3	.0	1.7	.0	.0	.0	.0	1.7	
3-4	.0	.2	.0	.0	.0	.0	.2	.0	.8	.7	.0	.0	.0	1.5	
5-6	.0	.0	.7	.0	.2	.0	.9	.0	.0	.1	.2	.0	.0	.4	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	.0	1.3	.2	.2	.0	2.0	.2	2.0	1.1	.4	.0	.0	4.7	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	3.8	3.4	.0	.0	.0	.0	7.2	7.2
1-2	1.3	19.6	4.6	.0	.0	.0	25.7	32.9
3-4	.0	10.3	18.3	1.0	.0	.0	29.7	62.6
5-6	.0	1.3	18.3	3.6	.2	.0	21.7	84.3
7	.0	.0	9.7	1.0	.4	.0	8.0	92.3
8-9	.0	.0	1.9	2.1	.2	.0	4.9	97.2
10-11	.0	.0	.4	1.1	.0	.0	1.5	98.7
12	.0	.0	.2	.4	.2	.0	.6	99.3
13-16	.0	.0	.0	.2	.2	.0	.4	99.7
17-19	.0	.0	.0	.2	.0	.0	.2	99.9
20-22	.0	.0	.0	.0	.0	.0	.0	100.0
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	35.6	47.3	10.5	1.1	.0	100.0	326

PERIOD: (OVER-ALL) 1943-1973

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	2.2	.4	10.0	7.0	2.7	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	336	3
1-2	.1	1.8	8.4	11.3	5.1	3.2	.9	.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	333	3
3-4	.2	.7	1.5	3.2	3.0	3.2	2.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	7
5-6	.0	.2	.7	.4	1.3	1.4	.3	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
7-9	.0	.0	.0	.2	.1	.5	.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
10-11	.0	.0	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	13
12-13	1.6	1.3	2.9	2.1	1.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
TOTAL	4.4	146	255	279	164	112	48	24	14	8	1	1	0	0	0	0	0	0	0	1073	3
PCT	4.1	13.6	23.8	24.1	15.3	10.4	4.5	2.2	1.3	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1853-1972

AUGUST

AREA 0010 FLORIANOPOLIS
26.85 45.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZS PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	POG WD PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.4	.0	.0	.0	.0	.0	.0	2.2	1.8	2.2	2.3	.0	1.8	.0	89.7
NE	.9	.0	.0	.0	.0	.0	.0	1.8	.9	1.7	1.1	.2	2.9	.0	91.7
E	3.7	.3	.0	.0	.0	.0	.0	8.0	.6	.0	1.4	.0	3.5	.0	88.8
SE	2.2	2.1	1.8	.0	.0	.0	.0	9.8	2.9	.6	.6	.0	2.4	.0	88.1
S	3.7	2.6	1.8	.0	.0	.0	.0	8.1	2.2	.0	1.7	.0	.5	.0	87.4
SW	3.5	6.8	2.0	.0	.0	.0	.0	12.3	1.6	.6	3.3	.8	1.8	.0	79.8
W	.0	8.6	.0	.0	.0	.0	.0	8.6	1.6	1.2	5.1	.0	1.6	.0	82.0
NW	3.4	1.7	1.7	.0	.0	.0	.0	6.7	.4	1.7	3.0	.0	.4	.0	85.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.8	3.8	3.8	.0	.0	.0	88.5
TOT PCT	2.4	2.1	.9	.0	.0	.0	.0	9.4	1.4	1.1	2.0	.1	2.1	.0	88.0
TOT OBS:	1646														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZS PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	POG WD PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.7	3.0	.7	.0	.0	.0	.0	6.4	1.4	2.7	1.7	.2	1.7	.0	85.9
0600	3.4	1.8	1.6	.0	.0	.0	.0	6.7	1.8	1.0	2.3	.0	1.3	.0	87.0
1200	2.4	2.4	.2	.0	.0	.0	.0	3.0	1.1	.7	2.8	.0	1.7	.0	88.7
1800	1.4	1.2	.9	.0	.0	.0	.0	3.8	1.2	.5	1.2	.2	3.3	.0	90.2
TOT PCT	2.4	2.1	.8	.0	.0	.0	.0	9.4	1.4	1.2	2.0	.1	2.0	.0	88.0
TOT OBS:	1680														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	6.1	3.8	1.1	.0	.0		13.7	11.6		12.4	13.7	13.9	17.7	19.3	19.2	13.7	11.4
NE	1.2	9.7	11.0	3.1	.2	.0		25.2	13.1		27.6	26.2	28.0	21.9	25.8	20.8	29.1	20.3
E	.6	8.7	4.8	1.1	.1	.0		11.9	12.1		13.8	13.1	11.3	8.9	11.1	11.7	10.9	10.2
SE	.6	8.2	4.2	1.0	.1	.0		11.2	12.0		12.0	12.2	11.0	2.1	10.4	10.9	11.0	9.7
S	.9	4.9	3.8	1.7	.4	.0		13.3	13.6		14.3	10.9	12.3	17.7	12.3	13.3	13.1	19.9
SW	.7	3.9	4.6	3.3	.7	.1		13.4	16.6		10.8	13.0	12.6	14.1	14.0	12.7	14.1	15.9
W	.4	1.8	1.1	.8	.1	.1		4.2	14.0		3.0	4.5	3.7	8.5	4.3	3.7	4.1	6.8
NW	.4	2.6	1.4	.2	.0	.0		4.6	10.0		2.9	3.9	3.6	7.8	4.8	6.0	4.3	3.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		2.9	2.5	3.7	2.1	2.3	2.6	1.7	.0
TOT OBS	938	2402	2492	820	109	12	6533		12.7		1160	793	1132	48	1187	980	1199	44
TOT PCT	8.2	39.8	37.5	12.6	1.7	.2	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	3.3	7.0	3.1	.3	.0		13.7	11.6		12.9	14.1	14.3	13.6	
NE	4.6	12.9	6.7	1.0	.0		25.2	13.1		27.0	23.6	23.4	24.9	
E	2.6	6.3	2.3	.4	.0		11.9	12.1		13.8	11.2	11.3	10.8	
SE	2.6	5.9	2.7	.3	.0		11.2	12.0		12.1	10.7	10.7	11.0	
S	2.8	6.2	3.3	.9	.1		13.3	13.6		13.0	12.6	12.8	13.3	
SW	2.2	4.7	4.4	1.8	.3		13.4	16.6		11.7	12.7	14.8	14.2	
W	1.1	1.7	.9	.4	.1		4.2	14.0		3.6	3.9	4.9	4.2	
NW	1.3	2.6	.5	.0	.0		4.6	10.0		3.3	3.7	3.3	4.3	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.6						2.6	.0		2.8	3.7	2.4	1.6	
TOT OBS	1318	3071	1374	336	34	6533		12.7		1933	1200	2137	1243	
TOT PCT	23.2	47.0	24.1	5.1	.5	100.0				100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1933-1972AREA 0010 FLORIANOPOLIS
26.83 45.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	2.8	5.6	40.6	36.8	1.7	1.4	.1	12.7	100.0	1933
0400Z	3.7	5.6	39.3	38.8	11.3	1.3	.2	12.3	100.0	1200
1201Z	2.4	5.6	38.8	37.9	12.9	2.0	.2	13.0	100.0	2137
1802Z	1.6	5.6	40.9	36.8	13.0	1.9	.2	12.9	100.0	1243
TOT	170	388	2802	2492	820	109	12	12.7		6920
PCT	2.8	5.6	39.8	37.5	12.6	1.7	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.2	1.9	4.9	5.4		4.3
NE	10.1	6.3	7.3	5.8		4.1
E	3.3	1.9	3.3	2.4		4.3
SE	2.3	2.0	2.4	5.4		3.1
S	3.3	1.5	3.8	6.9		3.6
SW	2.3	1.3	3.8	3.7		3.1
W	.7	.5	.8	1.0		3.2
NW	1.3	.5	.9	.4		4.2
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.2	.2		3.2
TOT OBS	388	201	342	333	1244	4.6
TOT PCT	29.3	16.1	27.4	26.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.7	.0	.2	.8	2.0	1.3	.8	.2	.0	.1	9.9
NE	.2	.1	.4	1.6	3.2	1.6	1.6	.1	.3	.1	20.3
E	.1	.0	.2	.6	1.3	1.2	.5	.2	.1	.1	6.7
SE	.1	.0	.1	1.3	1.3	.7	.7	.2	.0	.0	3.7
S	.0	.2	.3	1.9	3.0	1.6	1.1	.1	.0	.2	7.2
SW	.2	.0	.8	1.0	1.4	1.4	1.3	.2	.1	.8	9.0
W	.1	.0	.0	.2	.3	.3	.2	.0	.0	.1	1.4
NW	.0	.0	.1	.1	.3	.3	.3	.0	.0	.0	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	1.1
TOT OBS	17	3	16	93	166	104	80	14	6	7	743
TOT PCT	1.0	.2	1.3	7.6	13.3	6.3	6.4	1.1	.5	.6	39.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>3000	>0
>4500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.3	2.0	2.0	2.1	2.1	2.1	2.1	2.1
>5500	6.4	8.3	8.3	8.7	8.7	8.7	8.7	8.7
>6000	11.8	16.2	16.9	17.2	17.2	17.2	17.2	17.2
>1000	20.2	28.9	30.1	30.4	30.4	30.5	30.5	30.5
>400	34.9	39.8	37.3	37.6	37.6	37.7	37.7	37.7
>300	35.3	36.7	38.4	38.8	38.8	38.8	38.8	38.8
>150	35.3	36.9	38.6	39.0	39.0	39.1	39.1	39.1
>0	35.4	37.1	39.3	39.8	39.9	40.0	40.0	40.0
TOTAL	320	467	493	501	502	503	503	504

TOTAL NUMBER OF OBS: 1239

PCT FREQ NM <5/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.7	10.2	12.9	9.6	7.5	5.6	8.0	8.5	16.6	.7	1347

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1859-1972

AUGUST

AREA 0010 FLORIANOPOLIS
26.65 49.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	.3
	TOT S	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.2	.1	.1	.2	.4	.1	.0	.0	.0	1.0	1.0
	TOT S	.1	.2	.1	.1	.2	.4	.1	.0	.0	.0	1.0	
2<5	PCP	.0	.1	.1	.2	.2	.3	.0	.1	.0	.0	.4	.4
	NO PCP	.0	.2	.1	.1	.4	.3	.2	.2	.0	.0	2.0	2.0
	TOT S	.0	.2	.1	.3	.6	.7	.2	.3	.0	.0	2.4	
5<10	PCP	.2	.3	.4	.3	.7	1.1	.3	.1	.0	.0	3.2	3.2
	NO PCP	4.6	6.2	2.0	1.6	3.0	3.6	1.0	.9	.0	.4	24.0	24.0
	TOT S	4.8	6.5	2.4	1.9	4.1	4.7	1.3	1.0	.0	.4	27.2	
10+	PCP	.1	.1	.2	.1	.3	.1	.1	.1	.0	.0	1.2	1.2
	NO PCP	9.3	20.2	8.2	7.8	9.7	6.6	2.3	2.2	.0	.7	67.2	67.2
	TOT S	9.4	20.3	8.3	7.9	10.0	6.7	2.4	2.3	.0	.9	68.4	
TOT OBS													
TOT PCT													
		14.9	27.4	11.0	10.2	19.0	12.4	3.9	3.4	.0	1.4	100.0	1044

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.2	.0	.0	.1	.1	.0	.0	.0	.1	.6	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.1	.0	.0	.1	.1	.0	.0	.0	.4	.4
	11-21	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	TOT S	.1	.2	.2	.1	.1	.2	.1	.0	.0	.0	1.2	1.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.3	.3	.2	.2	.2	.2	.1	.2	.0	.0	1.7	1.7
	11-21	.4	.4	.3	.2	.2	.2	.1	.1	.0	.0	1.9	1.9
	22+	.1	.1	.2	.1	.2	.1	.0	.0	.0	.0	.8	.8
	TOT S	.8	.8	.7	.5	.6	.5	.3	.3	.0	.0	4.4	4.4
5<10	0-3	.2	.2	.1	.7	.2	.0	.0	.4	.0	.0	1.7	1.7
	4-10	1.7	1.9	1.2	.8	1.2	1.3	.4	.3	.0	.0	9.1	9.1
	11-21	1.9	2.7	1.2	1.1	1.4	.9	.3	.3	.0	.0	9.7	9.7
	22+	.3	1.1	.5	.4	.7	1.4	.3	.0	.0	.0	5.0	5.0
	TOT S	4.3	6.0	3.0	2.2	3.3	3.7	1.0	.9	.0	.0	25.3	25.3
10+	0-3	.9	.9	.4	.3	.3	.7	.1	.2	.0	1.3	3.3	3.3
	4-10	3.9	6.9	4.3	4.2	3.6	2.4	1.2	1.4	.0	.0	20.2	20.2
	11-21	3.4	6.2	2.9	2.9	3.9	3.6	.8	.8	.0	.0	20.5	20.5
	22+	.7	2.1	.9	.7	1.1	2.3	.4	.1	.0	.0	8.3	8.3
	TOT S	8.9	16.0	8.7	8.2	9.1	6.9	2.6	2.7	.0	1.3	68.4	68.4
TOT OBS													
TOT PCT													
		14.3	29.2	12.9	11.2	13.4	13.4	3.9	3.9	.0	2.1	100.0	3508

AUGUST

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1859-1972

AREA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	1.3	.3	.7	8.3	10.9	6.0	7.9	1.7	.3	.0	37.4	62.6	302
0600Z	1.0	.3	1.7	3.6	13.9	10.4	3.9	.7	.3	1.4	41.3	58.7	288
1201Z	1.4	.0	2.0	8.3	13.1	10.0	6.0	.9	.3	.3	42.3	57.7	330
1802Z	.0	.3	.6	6.9	13.3	6.9	6.3	1.1	.8	.6	33.9	66.1	363
TOT	12	3	16	95	108	108	85	14	6	7	514	789	1303
PCT	.9	.2	1.2	7.3	12.9	8.3	6.3	1.1	.5	.5	39.4	60.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.2	.1	1.2	4.7	26.3	67.3	993
0600Z	.7	.3	1.7	4.3	25.1	67.8	717
1201Z	.9	.1	.8	4.3	25.9	67.8	1063
1802Z	.8	.1	1.2	4.0	23.1	70.7	740
TOT	23	3	41	158	896	2419	3542
PCT	.6	.1	1.2	4.3	23.3	68.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
0000Z	1.4	2.8	12.3	26.0	61.6	289
0600Z	1.1	3.6	12.6	30.6	56.8	278
1201Z	1.8	3.2	12.9	30.0	57.1	340
1802Z	.0	.9	10.2	29.0	60.8	332
TOT	13	32	131	364	744	1259
PCT	1.0	2.3	12.0	28.9	59.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.4	.0	.0	.0	3	.4
75/79	.0	.0	.0	.1	.3	1.7	.7	.2	30	2.8
70/74	.0	.0	.0	.7	1.6	6.8	13.9	7.6	386	30.3
65/69	.0	.0	.2	2.6	6.1	8.1	13.1	12.1	362	44.2
60/64	.0	.0	.3	1.0	3.7	4.9	4.6	3.8	130	18.1
55/59	.0	.0	.1	.3	.6	1.3	1.1	.7	52	6.1
50/54	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
TOT	0	0	6	61	160	288	443	312	1272	100.0
PCT	.0	.0	.5	4.6	12.6	22.6	35.0	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.1	.0	.0	.0	.0	.0	.0	.0
.3	2.1	.2	.0	.0	.0	.0	.1	.0	.0
6.3	13.6	3.9	1.6	1.8	1.6	.9	1.2	.0	.0
3.8	11.9	6.2	3.7	6.8	4.3	1.1	1.8	.0	.4
1.6	1.7	1.1	2.6	4.4	4.7	1.0	.5	.0	.6
.0	.1	.1	.3	1.0	2.1	.3	.2	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
14.1	29.4	10.6	10.3	14.0	12.9	3.3	3.7	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	79	74	72	66	59	56	50	66.2	1940
0600Z	78	73	72	66	58	53	52	63.9	1190
1201Z	82	77	75	68	60	56	51	67.3	2081
1802Z	81	78	76	68	60	57	54	67.9	1211
TOT	82	76	73	67	59	56	50	66.9	6430

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.7	12.3	15.7	34.7	30.7	82	326		
0600Z	.0	4.4	16.8	18.9	32.4	33.8	83	296		
1201Z	.0	6.0	14.4	23.1	23.1	21.4	80	350		
1802Z	.0	7.6	13.4	29.6	36.0	13.4	78	328		
TOT	0	71	163	203	430	319	80	1300		

AUGUST

 PERIOD: (PRIMARY) 1913-1972
 (OVER-ALL) 1854-1972

TABLE 17

 AREA 0010 FLORIANOPOLIS
 26.85 43.7M

 PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	53 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.1	.0	.1	6	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.1	.2	8	.0	.3
7/8	.0	.0	.0	.2	.3	.1	.3	.0	10	.0	1.1
5	.0	.0	.0	.3	.1	.2	.0	.0	9	.0	.6
4	.0	.1	.1	.3	.9	.6	.5	.1	43	.2	2.7
3	.0	.0	.4	1.0	.8	.9	.1	.0	36	.1	3.0
2	.0	.0	.7	1.9	1.3	1.3	.0	.0	70	.0	5.1
1	.0	.0	1.3	3.2	3.7	1.7	.0	.0	149	.3	9.6
0	.0	.1	1.1	2.9	4.9	2.4	.0	.0	173	.1	11.3
-1	.0	.3	1.7	3.3	6.2	1.5	.0	.0	220	.3	14.8
-2	.0	.2	1.3	4.1	4.3	.3	.0	.0	138	.3	10.2
-3	.1	.3	1.4	3.8	3.8	.2	.0	.0	167	.1	9.7
-4	.0	.4	1.1	3.4	1.7	.1	.0	.0	100	.1	6.3
-5	.2	.3	1.7	3.7	.9	.0	.0	.0	109	.1	6.6
-6	.1	.4	1.1	2.4	.0	.0	.0	.0	59	.0	3.9
-7/-8	.1	.3	1.3	1.6	.1	.0	.0	.0	36	.0	3.7
-9/-10	.1	1.4	2.1	.7	.3	.0	.0	.0	70	.0	4.7
-11/-12	.0	.9	.6	.1	.1	.0	.0	.0	24	.0	1.6
-13/-14	.1	.7	.3	.0	.0	.0	.0	.0	16	.0	1.1
-15/-16	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	12	86	243	335	452	146	14	6	1498	1.7	98.3
PCT	.8	5.9	16.4	33.7	30.2	9.7	.9	.4	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.6	.2	.0	.0	.0	1.8
1-2	.2	3.0	.3	.0	.0	.0	3.4	.0	4.2	2.0	.0	.0	.0	6.1
3-4	.0	.6	2.7	.2	.0	.0	3.3	.2	3.8	7.3	.3	.0	.0	11.9
5-6	.0	.4	1.3	.7	.0	.0	2.4	.0	1.3	3.6	1.3	.0	.0	6.3
7	.0	.2	.7	.7	.0	.0	1.6	.0	.0	2.6	1.6	.0	.0	4.4
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.0	.0	.0	.0	1.0
10-11	.0	.0	.2	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.1	5.4	2.3	.0	.0	13.1	.2	11.1	19.0	4.3	.0	.0	34.6

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.2	.8	.0	.0	.0	.0	1.0
1-2	.0	3.1	.6	.0	.0	.0	3.7	.0	1.9	.3	.0	.0	.0	2.2
3-4	.0	.2	1.8	.0	.0	.0	2.0	.0	2.0	.7	.4	.0	.0	3.1
5-6	.0	.3	1.0	.0	.0	.0	1.3	.0	.2	.6	.4	.0	.0	1.2
7	.0	.3	.6	.2	.0	.0	1.1	.0	.3	.2	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	3.9	.6	.0	.0	9.2	.2	3.3	2.0	.9	.0	.0	8.3

PERIOD: (OVER-ALL) 1963-1972

AUGUST

TABLE 18 (CONT)

AREA 0010 FLORIANOPOLIS
26.65 45.7M

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.4	.0	.0	.0	1.1	.0	.1	.2	.0	.0	.0	.3
1-2	.0	4.1	1.1	.0	.0	.0	3.4	.0	1.0	.5	.0	.0	.0	1.6
3-4	.0	1.7	1.7	.6	.0	.0	4.0	.0	.9	2.2	.0	.0	.0	3.0
5-6	.0	.4	2.4	.2	.0	.0	3.0	.0	.2	1.3	.2	.0	.0	1.8
7	.0	.0	1.1	.2	.0	.0	1.4	.0	.0	1.0	.5	.0	.0	1.5
8-9	.0	.0	.5	.4	.0	.0	.7	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.2	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.9	7.1	2.0	.2	.0	16.3	.1	2.2	5.8	1.1	.1	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.0	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.3	.3
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.2	.0	.0	.0	1.6	1.6
3-4	.0	.2	.4	.2	.0	.0	.7	.0	.3	.5	.1	.0	.0	.8	.8
5-6	.0	.4	.2	.0	.0	.0	.6	.0	.0	.3	.2	.0	.0	.5	.5
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.9	.5	.0	.0	2.9	.1	2.1	.9	.3	.0	.0	3.4	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	3.3	.8	.0	.0	.0	9.4	9.4
1-2	.4	16.7	4.9	.0	.0	.0	23.2	23.2
3-4	.2	9.4	17.2	1.8	.0	.0	28.7	28.7
5-6	.0	3.3	12.5	3.3	.0	.0	19.3	19.3
7	.0	1.0	6.6	3.7	.0	.0	11.3	11.3
8-9	.0	.0	1.8	1.0	.0	.0	2.9	2.9
10-11	.0	.0	.0	1.0	.0	.0	2.3	2.3
12	.0	.0	.2	.0	.0	.0	.2	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.2	.0	.6	.6
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-28	.0	.0	.0	.0	.0	.0	.0	.0
29-30	.0	.0	.0	.0	.0	.0	.0	.0
31-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0
81+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.1	38.9	44.7	12.1	.2	.0	100.0	488

PERIOD: (OVER-ALL) 1963-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-80	81+	TOTAL	MEAN HGT
<6	3.3	12.3	13.0	5.1	2.1	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	388	3
6-7	.2	1.8	7.7	10.0	7.4	1.6	1.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	316	3
8-9	.0	.4	1.2	4.1	9.7	1.7	2.1	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	7
10-11	.0	.2	.1	.4	1.1	.6	1.1	.5	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	49	9
12-13	.0	.0	.2	.2	.1	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
15-19	.0	.0	.0	.0	.2	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDT	2.7	1.9	1.2	1.4	1.7	.8	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	108	10
TOTAL	6.5	16.9	24.6	22.2	19.2	5.8	5.6	1.2	2.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	1046	5
PCT	6.2	16.2	23.3	21.2	18.4	5.3	5.4	1.1	2.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1827-1973

AREA 0010 FLORIANOPOLIS
26.65 45.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN THAI	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	2.6	1.1	1.6	.0	.0	.0	.0	5.3	.8	2.0	3.8	.0	1.7	.0	89.1
NE	2.9	.5	2.2	.0	.0	.0	.0	3.4	1.2	1.7	4.1	.0	3.1	.0	89.1
E	3.4	2.7	.7	.0	.0	.0	.0	7.1	1.6	1.9	2.4	.0	1.1	.0	89.7
SE	3.7	1.6	2.3	.0	.0	.0	.0	12.6	2.6	2.5	1.1	.0	1.9	.0	80.3
S	3.0	.6	3.7	.0	.0	.0	.0	7.3	2.9	1.7	1.9	.0	.0	.0	89.4
SW	4.7	2.2	2.0	.0	.0	.0	.0	8.9	3.6	1.1	6.3	.0	3.4	.0	76.6
W	8.9	3.9	2.3	.0	.0	.0	.0	15.2	3.9	1.9	3.5	.0	1.6	.0	74.3
NW	8.2	1.9	2.9	.0	.0	.0	.0	11.1	2.4	6.7	2.9	.0	3.8	.0	73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.6	.0	.0	.0	.0	.0	.0	11.6	.0	11.6	.0	.0	3.9	.0	76.5
TOT PCT	4.0	1.4	2.6	.0	.0	.0	.0	7.8	2.1	2.0	3.6	.1	2.4	.0	82.0
TOT OBS:	1673														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
0800	4.1	1.7	2.7	.0	.0	.0	.0	8.5	1.9	4.4	2.4	.0	3.4	.0	80.1
0900	4.9	1.4	3.1	.0	.0	.0	.0	9.3	1.9	3.1	3.6	.0	1.0	.0	82.1
1000	3.7	1.9	2.1	.0	.0	.0	.0	7.3	2.1	.6	3.6	.0	2.3	.0	84.3
1100	4.1	.2	2.9	.0	.0	.0	.0	7.3	2.2	.2	4.9	.2	2.4	.0	89.0
TOT PCT TOT OBS:	4.2 1716	1.3	2.7	.0	.0	.0	.0	8.1	2.0	2.0	3.6	.1	2.3	.0	82.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.6	4.6	4.7	1.1	.2	.6		11.1	12.6	9.3	11.9	10.2	14.0	12.0	13.1	10.4	17.9	
NE	1.7	8.7	11.4	3.4	.3	.0		24.9	13.7	23.4	25.1	25.9	40.9	24.3	21.9	23.2	26.9	
E	.7	6.6	8.2	1.3	.0	.0		13.9	11.9	14.7	13.3	13.4	12.9	13.4	14.1	14.1	11.9	
SE	.3	7.3	3.3	1.0	.1	.0		14.1	11.4	13.4	14.3	13.9	.0	13.9	14.3	13.1	19.6	
S	.9	6.2	6.2	2.0	.3	.0		13.3	13.1	10.2	14.9	13.2	12.8	13.9	13.1	17.4	14.9	
SW	.4	4.7	4.1	1.8	.3	.0		11.3	13.8	10.1	10.6	11.6	12.2	11.4	12.3	11.6	8.3	
W	.4	1.8	.9	.3	.1	.0		3.4	10.7	2.3	2.2	3.9	1.8	4.4	3.9	3.3	.0	
NW	.4	2.1	1.1	.3	.0	.0		3.8	9.4	2.3	3.2	3.8	4.9	4.6	3.4	3.1	1.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	1.3	2.7	2.2	.0	2.3	2.6	1.6	.0	
TOT OBS	430	2883	2399	685	79	3	6181		12.4	1074	743	1128	41	1136	896	1117	42	
TOT PCT	7.0	41.8	38.8	11.1	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 7A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	15	21
N	2.3	3.8	2.3	.4	.0			11.1	12.6	10.3	10.4	12.3	10.7
NE	4.1	12.1	7.7	1.0	.0			24.9	13.7	23.4	23.3	23.4	23.2
E	3.2	7.3	2.9	.3	.0			13.9	11.6	13.0	13.3	13.1	14.0
SE	3.4	8.0	2.3	.4	.0			14.1	11.4	13.0	13.4	14.1	13.3
S	3.3	7.2	4.0	.7	.1			13.3	13.1	10.2	13.1	13.6	17.3
SW	2.4	4.9	3.1	.0	.1			11.3	13.8	10.3	11.6	11.8	11.3
W	1.3	1.6	.6	.1	.0			3.4	10.7	2.4	3.8	4.2	3.4
NW	1.3	1.8	.4	.0	.0			3.8	9.4	2.3	3.8	3.0	3.1
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.9	2.1	2.4	1.6
TOT OBS	1470	3007	1433	234	13	6181			12.4	1074	743	1128	41
TOT PCT	23.8	48.6	23.3	3.8	.2			100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

AREA 0010 FLORIANOPOLIS
26.6E 45.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT	TOTAL
				11-21	22-33	34-47	FREQ				
0000Z	1.9	4.6	42.3	38.4	10.8	1.0	-1	12.4	100.0	1321	
0600Z	2.1	3.1	42.3	37.0	12.2	1.0	0	12.2	100.0	1169	
1200Z	2.4	3.8	41.7	38.1	10.6	1.4	0	12.2	100.0	2032	
1800Z	1.6	3.8	40.2	42.3	11.3	.8	-1	12.7	100.0	1159	
TOT	138	384	2385	2399	685	79	3	12.4		6181	
PCT	2.0	4.9	41.8	38.8	11.1	1.3	0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
M	3.3	1.3	2.2	3.2		4.6
NE	8.3	3.3	7.7	8.0		4.7
E	2.4	1.6	2.8	4.0		3.3
SE	2.3	1.7	3.1	3.2		3.5
S	4.3	2.3	4.4	3.8		3.0
SW	3.3	2.6	2.3	4.0		4.7
W	1.4	.8	.7	1.2		4.3
NW	.6	.6	.7	.6		4.8
VAR	.0	.0	.0	.6		.0
CALM	.4	.0	.2	.6		3.4
TOT OBS	332	282	299	406	1239	4.9
TOT PCT	26.8	16.3	24.1	33.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND DIR	0-3	3-4	5-7	8 & OBSCD	TOTAL OBS	WIND CLOUD COVER	000 149	150 29	300 399	400 999	1000 1999	2000 3499	2500 4999	5000 6499	6500 7999	8000 9999	NH <5/8 ANY HGT	TOTAL OBS
M	3.3	1.3	2.2	3.2		4.6	.1	.0	.2	1.1	1.3	.6	.7	.0	.0	.1	6.3	
NE	0.3	3.3	7.7	8.3		4.7	.3	.0	1.0	2.7	3.8	2.3	1.5	.4	.2	.1	17.2	
E	2.4	1.6	2.8	4.0		3.3	.2	.0	.3	1.0	2.1	1.4	.6	.0	.1	.0	3.0	
SE	2.3	1.7	3.1	3.7		3.3	.4	.0	.6	1.3	1.9	1.3	.9	.1	.2	.0	3.7	
S	4.3	2.3	4.4	9.8		3.0	.3	.1	.4	2.1	2.3	1.3	.9	.2	.1	.0	9.2	
SW	3.3	2.6	2.3	4.0		4.7	.6	.0	.1	1.6	1.4	.7	.5	.4	.0	.1	7.0	
W	1.4	.3	.7	1.2		4.3	.0	.0	.1	.4	.3	.1	.4	.0	.0	.0	2.3	
NW	.6	.6	.7	.6		4.8	.0	.0	.1	.1	.2	.2	.7	.0	.0	.0	1.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.2	.6		3.4	.0	.7	.1	.1	.2	.0	.2	.0	.0	.0	.6	
TOT OBS	332	202	299	406	1239	4.9	29	1	36	132	166	101	67	13	9	3	482	
TOT PCT	26.8	16.3	24.1	33.8	100.0		2.3	.1	2.9	10.7	13.4	8.2	5.4	1.0	.7	.2	39.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>1/2	>1/4	>3000	>0
>3000	.9	.9	.9	.9	1.0	1.0	1.0	1.0
>2000	1.0	1.0	1.9	1.9	2.1	2.1	2.1	2.1
>1000	4.0	6.2	7.2	7.2	7.4	7.4	7.4	7.4
>500	9.7	13.7	13.4	13.4	13.7	13.7	13.8	13.8
>100	10.2	20.3	20.8	20.1	20.4	20.4	20.4	20.4
>50	24.9	33.4	39.1	39.6	39.8	39.8	39.9	39.9
>30	34.8	37.8	42.1	42.6	42.8	42.8	42.9	42.9
>15	34.3	37.8	42.2	42.6	42.9	42.9	43.0	43.0
>0	39.1	39.7	43.8	44.6	45.0	45.1	45.2	45.3
TOTAL	314	46	348	398	362	364	363	366

TOTAL NUMBER OF OBS: 1239

PCT FREQ NH <5/8: 34.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
	14.6	10.8	10.1	10.4	8.1	5.1	6.2	9.4	23.2	134

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

AREA 0010 FLORIANOPOLIS
26.65 49.84

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.4	.0	.1	.0	.0	.1	.0	.0	.0	.6	
	TOT %	.1	.5	.0	.1	.0	.1	.1	.0	.0	.0	1.0	
1<2	PCP	.1	.2	.1	.1	.0	.2	.0	.0	.0	.0	.6	
	NO PCP	.1	.4	.1	.1	.1	.3	.0	.1	.0	.0	1.2	
	TOT %	.2	.6	.2	.1	.1	.5	.0	.1	.0	.0	1.8	
2<5	PCP	.1	.5	.2	.2	.3	.2	.2	.0	.0	.1	1.9	
	NO PCP	.9	1.3	.8	.6	.4	.7	.3	.2	.0	.1	5.0	
	TOT %	1.0	1.8	.7	.9	.7	.9	.5	.2	.0	.1	6.9	
5<10	PCP	.3	.7	.4	1.2	.5	.3	.2	.3	.0	.1	3.9	
	NO PCP	3.8	6.8	3.8	3.6	3.6	2.8	1.0	.9	.0	.2	23.4	
	TOT %	3.1	7.5	4.1	4.8	4.1	3.1	1.2	1.2	.0	.3	27.3	
10+	PCP	.1	.1	.3	.1	.2	.2	.2	.1	.0	.0	1.3	
	NO PCP	6.4	17.7	7.3	6.8	11.0	6.3	1.8	1.3	.0	.6	39.4	
	TOT %	6.5	17.8	7.5	6.9	11.2	6.5	2.0	1.4	.0	.6	40.7	
TOT OBS													1673
TOT PCT													
		10.9	26.4	12.7	12.8	16.2	11.1	5.8	3.1	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.0	.0	.0	.1	.0	.1	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
	4-10	.1	.1	.1	.1	.1	.2	.0	.1	.0	.0	.8	
	11-21	.2	.3	.0	.2	.1	.1	.0	.0	.0	.0	1.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.6	.2	.3	.3	.3	.1	.1	.0	.1	2.3	
2<5	0-3	.1	.1	.1	.0	.1	.0	.1	.0	.0	.1	.6	
	4-10	.9	.7	.3	.4	.3	.3	.2	.2	.0	.0	3.2	
	11-21	.4	1.1	.3	.4	.3	.3	.1	.1	.0	.0	2.9	
	22+	.1	.4	.1	.1	.2	.1	.0	.0	.0	.0	1.0	
	TOT %	1.1	2.3	1.1	.9	1.0	.7	.4	.4	.0	.1	7.8	
5<10	0-3	.2	.3	.2	.1	.2	.2	.0	.1	.0	.4	1.6	
	4-10	1.3	2.3	1.3	1.3	1.3	1.0	.7	.3	.0	.0	10.7	
	11-21	1.9	3.0	1.7	1.6	1.7	1.0	.3	.4	.0	.0	11.1	
	22+	.4	1.3	.4	.3	.9	.8	.1	.0	.0	.0	4.3	
	TOT %	3.4	7.0	3.3	3.7	4.4	2.9	1.1	1.1	.0	.4	27.1	
10+	0-3	.2	.6	.3	.2	.6	.1	.1	.2	.0	.9	3.2	
	4-10	2.9	5.8	4.8	3.9	4.0	3.1	1.1	1.2	.0	.0	26.9	
	11-21	3.1	8.0	3.1	2.7	4.6	3.1	.9	.6	.0	.0	26.1	
	22+	.3	1.6	.6	.3	1.1	1.2	.2	.1	.0	.0	5.6	
	TOT %	6.7	15.0	8.8	7.1	10.3	7.3	2.3	2.1	.0	.9	61.7	
TOT OBS													3473
TOT PCT													
		11.6	26.1	13.6	12.2	13.6	11.4	3.9	3.8	.0	1.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1897-1973

AREA 0010 FLORIANOPOLIS
26.65 45.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY MGT	TOTAL OBS
00003	2.9	.0	3.6	7.6	13.0	7.1	5.2	1.0	1.3	.6	42.3	37.5	308
06009	1.0	.0	3.9	11.8	14.1	9.2	3.3	.7	.7	.0	46.7	33.3	304
12013	1.7	.0	1.7	12.1	13.2	7.8	6.3	1.1	.6	.3	44.8	35.2	348
18021	3.2	.3	2.6	8.8	12.4	7.9	4.4	1.3	.3	.0	41.5	38.3	340
TOT	29	1	38	132	171	104	69	14	9	3	370	730	1300
PCT	2.2	.1	2.9	10.2	13.2	8.0	5.3	1.1	.7	.2	43.8	36.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.9	.6	2.3	7.6	28.0	60.6	987
06009	.8	.7	1.3	8.1	30.0	59.1	741
12013	.6	.6	2.6	8.2	26.4	61.7	1063
18021	.6	.8	2.3	7.3	24.0	64.6	724
TOT	23	23	79	276	953	2161	3517
PCT	.7	.7	2.2	7.8	27.1	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<130 <3000	<100 <1	<1000 <5	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	3.1	7.3	19.7	26.9	33.4	294
06009	1.0	3.3	24.6	29.0	46.4	293
12013	2.1	3.9	21.3	26.6	31.9	333
18021	3.4	7.3	20.7	23.2	36.1	328
TOT	30	73	270	329	631	1230
PCT	2.4	6.0	21.6	26.3	32.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.2	.0	2	.2
75/79	.0	.0	.1	.4	.3	1.1	.8	.5	41	3.1
70/74	.0	.0	.2	1.0	2.4	6.3	13.4	10.6	448	34.1
65/69	.0	.0	.2	3.3	6.6	10.3	13.0	13.2	813	48.6
60/64	.0	.0	.1	1.1	3.0	3.0	3.1	3.4	180	13.7
55/59	.0	.0	.0	.1	.3	.9	.3	.3	28	2.1
50/54	.0	.0	.0	.0	.0	.2	.1	.1	3	.2
TOTAL	0	0	4	74	166	287	410	370	1319	100.0
PCT	.0	.0	.3	5.6	12.6	21.6	31.2	28.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
75/79	.3	1.2	.3	.2	.3	.3	.0	.1	.0	.0
70/74	3.6	14.3	4.0	2.1	2.9	1.9	1.2	1.4	.0	.3
65/69	4.3	11.7	7.0	6.8	7.3	3.4	2.0	1.2	.0	.1
60/64	1.0	1.2	1.2	2.7	4.7	2.0	.3	.4	.0	.1
55/59	.0	.0	.2	.1	.8	.8	.1	.0	.0	.1
50/54	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0
TOTAL	11.3	28.7	12.9	12.0	16.3	10.6	3.9	3.1	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	74	72	67	61	58	67.0	1818
06009	77	73	72	67	60	53	66.4	1176
12013	82	77	74	68	62	57	68.3	1975
18021	83	78	73	64	62	58	68.8	1117
TOT	83	77	7	68	61	57	67.6	6086

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.3	14.5	20.4	26.9	34.9			84	338
06009	.0	3.3	9.0	19.8	32.9	33.0			83	334
12013	.0	7.5	19.6	21.4	32.2	23.3			80	360
18021	.0	11.1	13.1	23.8	32.2	17.8			78	314
TOT	0	84	169	293	418	382			81	1346

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

TABLE 17

AREA 0010 FLORIANOPOLIS
26.83 45.8W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	# FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.1	.0	.1	.1	6	.1	.3
9/10	.0	.0	.0	.1	.2	.1	.0	.1	6	.0	.4
7/8	.0	.0	.0	.3	.5	.3	.2	.1	20	.1	1.3
6	.0	.0	.0	.6	.3	.1	.1	.0	18	.0	1.2
5	.0	.0	.1	.3	.9	.3	.2	.0	33	.1	2.2
4	.0	.1	.1	1.0	.6	.4	.1	.0	33	.2	2.2
3	.0	.0	.1	1.4	1.8	1.4	.0	.0	70	.1	4.6
2	.0	.0	.3	2.3	4.4	1.0	.1	.0	121	.6	7.7
1	.0	.3	.8	3.7	5.3	2.3	.0	.0	194	.4	12.2
0	.1	.1	2.3	4.2	9.0	.6	.0	.0	238	.7	13.6
-1	.0	.1	1.4	3.3	6.8	.3	.0	.0	206	.4	13.7
-2	.0	.3	2.1	3.6	2.8	.3	.0	.0	163	.2	10.9
-3	.0	.1	1.1	3.1	1.4	.1	.0	.0	113	.1	7.8
-4	.0	.3	1.7	2.1	.3	.0	.0	.0	80	.0	3.3
-5	.0	.3	1.3	2.3	.1	.1	.0	.0	61	.0	4.2
-6	.0	.4	1.3	1.2	.1	.0	.0	.0	44	.0	3.0
-7/-8	.2	.3	1.2	1.0	.0	.1	.0	.0	42	.0	2.9
-9/-10	.0	.1	.6	.1	.1	.0	.0	.0	14	.0	1.0
-11/-13	.2	.1	.0	.1	.0	.0	.0	.0	3	.0	.3
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	39	220	356	308	117	13	3	1463	43	1420
PCT	.5	2.7	15.0	38.0	34.7	8.0	.9	.2	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1962-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.4	.4	.0	.0	.0	.0	.8
1-3	.0	3.3	1.4	.0	.0	.0	4.8	.4	3.3	1.8	.0	.0	.0	5.6
4-10	.0	1.3	2.4	.0	.0	.0	3.6	.2	2.6	6.3	.0	.0	.0	9.0
11-21	.0	.3	2.3	.4	.0	.0	3.0	.0	.3	6.8	.2	.0	.0	7.3
22-33	.0	.0	1.3	.1	.0	.0	1.4	.0	.0	3.6	1.4	.0	.0	5.3
34-47	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.2	1.1	.0	.0	2.3
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	.1	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
TOT PCT	.0	3.3	7.2	.8	.0	.0	13.3	1.0	7.1	20.1	4.0	.0	.0	32.2

HEGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.0	.4	.2	.0	.0	.0	.6
1-3	.0	3.3	.3	.0	.0	.0	4.0	.1	2.3	.3	.0	.0	.0	2.7
4-10	.0	1.2	1.8	.0	.0	.0	3.1	.0	2.0	1.1	.0	.0	.0	3.1
11-21	.0	.3	1.3	.3	.0	.0	2.1	.0	.4	.3	.0	.0	.0	1.3
22-33	.0	.1	.1	.8	.0	.0	1.6	.0	.2	.4	.0	.0	.0	.4
34-47	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4	.0	.0	.4
48+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
TOT PCT	.0	3.7	3.6	1.3	.0	.0	11.4	.1	3.6	2.8	.3	.0	.0	9.0

PERIOD: (OVER-ALL) 1963-1979

SEPTEMBER

AREA 0010 FLORIANOPOLIS
20.03 43.8W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	1.4	.0	1.0	.0	.0	.0	.0	1.0
1-2	.3	1.8	1.1	.0	.0	.0	3.2	.0	2.1	.9	.0	.0	.0	3.1
3-4	.0	1.7	2.7	.2	.0	.0	4.5	.0	2.1	3.4	.4	.0	.0	5.9
5-6	.0	.5	1.3	.1	.0	.0	1.9	.0	.1	1.6	.3	.2	.0	2.1
7	.0	.0	.3	.3	.0	.0	.8	.0	.0	.7	.9	.0	.0	1.6
8-9	.0	.0	.2	.3	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	6.4	1.0	.0	.0	12.5	.0	3.8	6.3	2.0	.0	.0	14.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.2	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.4	.4
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.7	.2	.0	.0	.0	.9	.9
3-4	.0	.7	.2	.0	.0	.0	.9	.0	.2	.2	.0	.0	.0	.4	.4
5-6	.0	.0	.3	.1	.0	.0	.3	.0	.3	.2	.0	.0	.0	.3	.3
7	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.2	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.7	.3	.0	.0	2.9	.0	1.6	.7	.4	.0	.0	2.7	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.1	4.0	1.0	.0	.0	.0	7.0	Q88
1-2	1.9	17.7	3.0	.0	.0	.0	25.8	
3-4	.0	12.0	17.7	.0	.0	.0	30.9	
5-6	.0	2.3	14.3	1.7	.2	.0	18.9	
7	.0	.0	6.3	3.6	.0	.0	11.4	
8-9	.0	.0	1.3	3.2	.0	.0	3.8	
10-11	.0	.2	.4	1.3	.0	.0	1.9	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.4	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	37.1	47.2	10.1	.2	.0	100.0	323

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	6.3	9.4	3.9	2.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	4
6-7	.0	1.7	6.7	13.1	8.4	2.9	1.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	361	6
8-9	.0	.4	1.0	3.3	7.4	2.6	1.6	.4	.8	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	183	7
10-11	.0	.2	.2	1.1	.9	.3	1.1	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
12-13	.0	.0	.3	.3	.2	.4	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	9
>13	.0	.0	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	5
INDBT	1.1	2.6	1.9	2.3	1.6	.3	.7	.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1017	6
TOTAL	2.5	11.3	19.3	26.4	21.2	7.4	3.8	2.7	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	2.5	11.3	19.3	26.4	21.2	7.4	3.8	2.7	2.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1855-1973

OCTOBER

AREA 0010 FLORIANOPOLIS
26.85 45.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	2.9	1.0	.0	.0	.0	.0	6.0	1.4	.5	2.3	1.0	2.1	.0	86.2
NE	3.6	.9	2.3	.0	.0	.0	.0	6.7	2.6	2.2	2.0	.0	3.4	.0	83.8
E	4.0	1.7	2.3	.0	.0	.0	.0	8.2	2.6	1.3	.8	.0	1.8	.0	85.4
SE	4.4	.8	2.3	.0	.0	.0	.0	7.5	3.1	.4	3.5	.0	2.0	.0	83.6
S	3.7	2.2	3.9	.0	.0	.0	.0	6.7	3.5	.7	2.7	.0	1.2	.0	83.2
SW	1.2	1.9	1.2	.0	.0	.0	.0	4.2	3.7	1.8	2.5	.0	1.5	.0	86.5
W	6.0	3.6	1.9	.0	.0	.0	.0	18.3	1.9	6.2	.0	.0	1.9	.0	73.3
NW	6.2	2.6	2.2	.0	.0	.0	.0	12.9	7.8	.9	3.4	.0	.9	.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	.0	6.3	.0	87.3
TOT PCT	3.7	1.7	2.4	.0	.0	.0	.0	7.6	3.0	1.4	2.3	.1	2.1	.0	83.9
TOT OBS:	1794														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
08003	2.2	2.2	2.6	.0	.0	.0	.0	6.8	3.1	2.0	1.8	.2	.9	.0	85.7
08009	4.4	2.1	3.4	.0	.0	.0	.0	9.7	3.4	2.9	1.8	.3	2.1	.0	80.4
12018	4.9	1.4	1.4	.0	.0	.0	.0	7.6	3.3	.2	2.7	.0	1.8	.0	84.3
18021	3.3	.9	2.4	.0	.0	.0	.0	6.8	2.2	.7	2.8	.0	3.3	.0	84.3
TOT PCT TOT OBS:	3.6 1782	1.6	2.4	.0	.0	.0	.0	7.6	3.0	1.3	2.3	.1	2.1	.0	83.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-9	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		10-19	20-29	30-39	40-49	50-59	60-69					00	03	06	09	12	15	18	21
N	.6	3.3	3.1	.7	.0	.0	.0	7.7	11.7	6.1	6.0	8.3	7.7	4.2	9.7	6.3	9.9	
NE	1.0	10.1	11.7	3.1	.1	.0	.0	23.9	13.1	27.4	27.8	26.4	29.2	24.8	23.1	26.1	23.7	
E	.9	8.8	7.1	1.4	.1	.0	.0	18.3	11.7	20.3	20.7	17.8	23.2	16.8	16.3	18.2	23.0	
SE	.9	7.8	6.0	1.3	.1	.0	.0	16.4	11.6	17.4	17.9	14.6	10.1	13.3	15.6	17.8	17.1	
S	.7	3.6	3.8	2.0	.2	.0	.0	14.4	13.4	15.1	12.4	13.2	17.9	13.8	13.4	13.3	13.1	
SW	.4	2.8	3.9	2.2	.4	.0	.0	9.8	10.3	8.0	8.5	8.9	3.0	11.3	12.0	10.3	3.3	
W	.4	1.1	.8	.2	.1	.0	.0	2.6	11.8	1.6	2.2	2.9	4.2	3.2	3.6	2.1	2.6	
NW	.3	1.4	.8	.2	.0	.0	.0	2.8	10.1	2.1	1.9	3.3	4.8	3.2	3.7	2.2	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1							2.1	.0	2.0	2.7	3.4	.0	2.1	2.6	1.4	.0	
TOT OBS	653	2604	2487	713	78	7	6351		12.4	1147	774	1107	42	1178	887	1178	38	
TOT PCT	7.3	41.0	38.2	11.3	1.2	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00				03	05	12	18	21
N	1.9	4.1	1.3	.3	.0		7.7	11.7	6.1	8.3	9.4	6.6
NE	4.3	13.4	7.0	.9	.0		23.9	13.1	27.3	26.3	24.0	26.0
E	4.2	10.0	3.7	.3	.0		18.3	11.7	20.4	17.8	16.6	18.4
SE	4.2	8.7	3.0	.4	.1		16.4	11.6	17.6	14.4	13.4	17.8
S	3.0	6.6	4.0	.7	.1		14.4	13.4	14.0	13.3	13.7	13.3
SW	1.5	3.7	3.3	1.0	.2		9.8	10.3	8.2	8.7	11.7	10.1
W	.8	1.2	.4	.1	.1		2.6	11.8	1.9	3.0	3.4	2.1
NW	1.0	1.4	.3	.1	.0		2.8	10.1	2.0	3.3	3.4	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.3	2.3	2.3	1.4
TOT OBS	1478	3114	1473	233	31	6351		12.4	1921	1149	2063	1216
TOT PCT	23.3	49.0	23.2	4.0	.5		100.0		100.0	100.0	100.0	100.0

OCTOBER

 PERIOD: (PRIMARY) 1919-1973
 (OVER-ALL) 1859-1973

 AREA 0010 FLORIANOPOLIS
 26.8S 45.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-29	30-47					
0000Z	2.3	4.6	40.8	39.7	11.1	1.3		.2	12.3	100.0	1921
0600Z	2.3	4.7	44.8	37.0	10.8	.5		.0	11.9	100.0	1149
1200Z	2.3	9.7	39.6	38.1	11.6	1.6		.0	12.4	100.0	2063
1800Z	1.4	3.8	40.2	42.2	11.3	.9		.2	12.8	100.0	1216
TOT	136	327	2604	2487	713	75		7	12.4		6391
PCT	2.1	5.1	41.0	39.2	11.3	1.2		.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION:

WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	.7	1.8	2.0			4.8
NE	6.2	5.0	9.2	8.1			8.0
E	4.8	2.9	4.2	3.7			4.9
SE	2.7	1.8	4.3	3.4			3.8
S	2.8	2.6	4.4	6.8			5.6
SW	2.1	1.6	2.9	2.8			3.0
W	.4	.1	.8	.8			3.6
NW	1.1	.4	.3	1.5			4.8
VAR	.0	.0	.2	.2			.0
CALM	.2	.2	.2	.2			4.2
TOT OBS	289	198	364	434	1285		5.2
TOT PCT	22.8	15.4	28.3	33.4	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBS	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NM <5/8 ANY HGT	TOTAL OBS
N	1.9	.7	1.8	2.0			4.8	.2	.0	.1	.5	.9	.7	.1	.2	.1	.0	3.5	
NE	6.2	5.0	9.2	8.1			8.0	.4	.0	.3	3.2	3.7	2.3	1.9	.6	.1	.2	18.2	
E	4.8	2.9	4.2	3.7			4.9	.3	.1	.4	1.3	3.1	1.6	.6	.3	.2	.5	9.9	
SE	2.7	1.8	4.3	3.4			3.8	.4	.0	.3	2.0	2.8	1.0	.7	.9	.3	.0	6.9	
S	2.8	2.6	4.4	6.8			5.6	.5	.2	.2	1.7	3.1	1.5	1.1	.2	.2	.1	8.0	
SW	2.1	1.6	2.9	2.8			3.0	.2	.0	.2	1.0	1.7	.4	.6	.8	.1	.0	9.2	
W	.4	.1	.8	.8			3.6	.0	.0	.0	.3	.2	.1	.4	.1	.0	.0	1.0	
NW	1.1	.4	.3	1.5			4.8	.2	.0	.0	.4	.5	.3	.0	.1	.0	.0	2.0	
VAR	.0	.0	.2	.2			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.2	.2			4.2	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.9	
TOT OBS	289	198	364	434	1285		5.2	27	4	21	134	200	101	62	34	11	3	485	1285
TOT PCT	22.8	15.4	28.3	33.4	100.0			2.1	.3	1.6	10.4	15.6	7.9	5.1	2.6	.9	.2	33.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>6	>5	>4	>3
> OR 5000	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
> OR 4000	2.1	3.2	3.8	4.1	4.1	4.1	4.1	4.1
> OR 3000	3.1	7.4	8.7	9.0	9.0	9.0	9.0	9.0
> OR 2000	16.0	14.3	16.4	16.7	16.7	16.7	16.7	16.7
> OR 1000	19.4	28.6	31.6	32.0	32.1	32.2	32.2	32.2
> OR 500	24.7	38.2	42.0	42.4	42.8	42.8	42.8	42.8
> OR 200	25.4	39.6	43.4	44.0	44.1	44.3	44.3	44.3
> OR 100	25.4	39.7	43.7	44.3	44.4	44.6	44.6	44.6
> OR 50	25.7	40.6	45.3	46.0	46.2	46.3	46.6	46.6
TOTAL	336	330	391	601	604	607	609	609

TOTAL NUMBER OF OBS: 1304

PCT FREQ NM <5/8: 53.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.7	11.2	11.0	8.9	8.2	9.5	7.9	10.3	23.2	1.3	1411

OCTOBER

 PERIOD: (PRIMARY) 1913-1973
 (OVER-ALL) 1959-1973

 AREA 0010 FLORIANOPOLIS
 26.65 45.8W

TABLE 8

 PERCENT FREE OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VBVY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	
1-2	PCP	.0	.2	.1	.2	.0	.0	.0	.1	.0	.0	.6	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.2	.2	.1	.0	.0	.1	.0	.0	.9	
2-5	PCP	.1	.3	.3	.1	.2	.1	.0	.0	.0	.0	1.3	
	NO PCP	.4	1.1	.3	.0	.9	.3	.1	.3	.0	.0	4.2	
	TOT %	.4	1.6	.6	.8	1.0	.6	.1	.3	.0	.0	5.4	
5-10	PCP	.1	.7	.3	.0	1.0	.2	.4	.3	.0	.0	4.7	
	NO PCP	3.0	9.2	4.3	3.8	3.3	3.4	.9	.6	.0	.3	28.3	
	TOT %	3.2	9.9	4.6	4.3	4.3	3.6	1.3	.9	.0	.3	32.4	
10+	PCP	.1	.4	.3	.1	.3	.1	.0	.1	.0	.0	1.4	
	NO PCP	9.2	15.1	11.7	9.6	10.3	9.6	.9	2.0	.0	.3	29.2	
	TOT %	9.3	15.5	12.0	9.7	10.6	9.7	.9	2.1	.0	.3	30.6	
TOT OBS													1792
TOT PCT													.9 100.0

TABLE 9

 PERCENT FREE OF WIND DIRECTION VS WIND SPEED
 WITH VARYING VALUES OF VISIBILITY

VBVY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.1	.1	.0	.0	.0	.0	.1	.4	
1-2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.6	
	11-21	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.5	.3	.2	.1	.0	.0	.1	.0	.0	1.6	
2-5	0-3	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.4	
	4-10	.2	.6	.4	.3	.4	.1	.0	.1	.0	.0	2.1	
	11-21	.4	1.0	.4	.3	.3	.2	.1	.2	.0	.0	3.0	
	22+	.0	.4	.2	.1	.0	.1	.0	.0	.0	.0	.8	
	TOT %	.6	2.1	1.1	.8	1.0	.4	.1	.3	.0	.1	6.3	
5-10	0-3	.1	.2	.2	.1	.1	.0	.0	.1	.0	.0	1.4	
	4-10	.0	3.2	2.2	1.8	1.3	.7	.4	.0	.0	.0	11.1	
	11-21	1.2	4.3	1.6	1.9	1.3	1.1	.4	.3	.0	.0	12.7	
	22+	.3	1.3	.3	.3	.3	.3	.2	.0	.0	.0	3.7	
	TOT %	2.3	9.2	4.7	4.2	3.4	2.4	1.0	.9	.0	.0	28.9	
10+	0-3	.3	.5	.6	.6	.4	.1	.2	.3	.0	1.1	4.0	
	4-10	1.8	6.0	3.3	3.4	4.3	2.2	.6	1.1	.0	.0	20.7	
	11-21	1.6	7.7	4.9	3.9	4.6	3.0	.6	.3	.0	.0	26.8	
	22+	.3	1.3	.6	.6	1.2	.7	.1	.0	.0	.0	4.9	
	TOT %	4.0	15.8	11.2	10.3	10.4	6.0	1.4	1.9	.0	1.1	62.4	
TOT OBS													3433
TOT PCT													1.8 100.0

OCTOBER

PERIOD: (PRI-MRY) 1913-1973
(OVER-ALL) 1855-1973

AREA 0010 FLORIANOPOLIS
26.85 43.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, MM >4/8) AND
OCCURRENCE OF MM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 799	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
0000Z	3.1	.9	.6	9.3	12.7	7.3	3.7	2.2	.6	.3	41.0	39.0	322
0600Z	1.1	.0	.7	10.6	15.5	7.4	7.4	2.5	1.1	.4	46.5	33.5	284
1201Z	2.2	.3	2.2	9.9	13.7	7.2	5.0	2.8	.9	.3	46.4	33.6	362
1802Z	1.6	.0	2.4	10.9	16.5	8.0	3.7	4.0	.8	.0	48.0	32.0	379
TOT	27	4	21	127	204	101	63	39	11	3	612	731	1343
PCT	2.0	.3	1.6	10.2	15.2	7.3	4.8	2.9	.8	.2	43.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.4	.3	.9	6.2	30.2	61.8	1000
0600Z	.3	.7	1.8	7.2	31.9	55.1	683
1201Z	.3	.2	2.5	7.2	26.9	62.7	1060
1802Z	.4	.1	1.1	3.7	28.0	64.7	760
TOT	14	13	36	230	1018	2172	3303
PCT	.4	.4	1.6	6.6	29.1	67.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, MM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 5+	MM <5/8 AND 5+	TOTAL OBS
0000Z	3.2	5.2	18.4	24.6	37.0	309
0600Z	1.1	2.2	18.6	31.4	30.0	274
1201Z	2.3	4.8	21.7	28.8	49.6	331
1802Z	1.6	4.3	19.1	29.6	51.3	372
TOT	27	35	235	373	678	1304
PCT	2.1	4.2	19.3	28.6	51.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/04	.0	.0	.0	.1	.6	.2	.1	.0	4	.3
73/79	.0	.0	.0	.4	.3	2.0	9.0	1.2	90	6.9
76/74	.0	.0	.2	1.8	2.8	7.3	13.9	13.8	308	22.8
68/69	.0	.0	.3	1.8	6.8	10.0	13.2	10.3	605	46.3
64/64	.0	.0	.1	.3	3.2	1.9	1.3	1.2	94	7.2
53/59	.0	.0	.0	.0	.0	.2	.1	.1	4	.3
TOTAL	0	0	7	44	189	280	440	344	1302	100.0
PCT	.0	.0	.5	3.4	14.2	21.5	33.8	26.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
00	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1
73	.4	2.8	1.0	.3	.3	.9	.3	.3	.0	.1
76	2.4	13.6	6.7	4.3	3.8	2.4	1.2	1.9	.0	.2
68	1.9	9.3	10.1	9.1	8.6	4.9	.9	1.2	.0	.3
64	.3	.2	.7	1.3	2.3	1.7	.3	.2	.0	.0
53	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0
TOT	5.3	26.1	10.3	15.4	13.4	10.0	2.7	3.7	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99S	95S	50S	5S	1S	MIN	MEAN	TOTAL OBS
0000Z	79	74	73	66	63	60	50	68.3	1922
0600Z	81	73	73	68	62	58	36	67.7	1152
1201Z	83	79	74	70	64	60	39	69.7	2001
1802Z	84	79	77	70	64	61	37	70.4	1171
TOT	84	78	75	69	63	60	30	69.0	6146

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.4	11.9	17.0	39.1	28.9			82	325
0600Z	.0	1.1	11.3	19.7	32.8	35.0			83	274
1201Z	.3	4.9	19.7	22.3	30.8	26.4			80	344
1802Z	.0	3.9	17.8	20.1	31.3	19.3			78	337
TOT	0	32	188	283	446	339			61	1326

OCTOBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1851-1973

TABLE 17

AREA 0010 FLORIANOPOLIS
26.63 45.8W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	63 66	65 68	67 70	69 72	71 74	73 76	75 78	77 80	79 82	TOT	N FOG	NO FOG
11/13	.0	.0	.1	.0	.1	.2	.3					9	.1	.3
9/10	.0	.1	.1	.1	.3	.1	.1					11	.0	.7
7/8	.0	.0	.1	.3	.4	.6	.0					21	.0	1.4
6	.0	.0	.0	.1	.9	.0	.0					16	.0	1.1
5	.0	.0	.3	.3	1.3	.7	.1					41	.1	2.6
4	.0	.0	.1	1.5	2.0	.4	.0					61	.0	4.0
3	.0	.1	.3	2.2	1.6	.1	.0					63	.2	4.1
2	.0	.1	1.1	5.1	2.2	.2	.0					132	.1	8.6
1	.0	.1	1.9	6.4	2.8	.1	.0					173	.3	11.1
0	.0	.6	4.3	7.6	2.1	.1	.0					228	.6	14.4
-1	.0	.3	4.3	6.4	.9	.1	.0					186	.1	12.2
-2	.0	1.1	3.1	4.6	.2	.0	.0					166	.1	10.8
-3	.0	1.1	3.3	2.5	.1	.0	.0					140	.0	9.2
-4	.3	1.0	4.4	.9	.1	.0	.0					101	.1	6.3
-5	.0	.9	2.7	1.0	.1	.0	.0					72	.1	4.7
-6	.2	.8	1.2	.2	.0	.0	.0					37	.0	2.4
-7/-8	.2	.6	1.2	.2	.0	.0	.0					33	.1	2.0
-9/-10	.1	.3	.8	.1	.0	.0	.0					15	.0	1.0
-11/-13	.1	.1	.1	.1	.0	.0	.0					7	.0	.8
-14/-16	.1	.3	.0	.0	.0	.0	.0					6	.0	.4
-20/-22	.1	.0	.0	.0	.0	.0	.0					1	.0	.1
TOTAL	16		512		230		7					1521	26	1493
PCT	1.1	7.6	33.7	39.6	13.1	2.6	.3					100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.3	.4	.0	.0	.0	.6
1-2	.0	.6	.6	.0	.0	.0	1.3	.0	3.3	2.4	.0	.0	.0	3.9
3-4	.0	.6	1.3	.1	.0	.0	2.1	.0	3.2	4.2	.4	.0	.0	7.7
5-6	.0	.8	1.6	.0	.0	.0	2.2	.2	.8	4.4	.8	.0	.0	9.7
7	.0	.0	.8	.2	.0	.0	1.0	.0	.7	1.2	1.1	.0	.0	3.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.6	.3	.0	.0	7.1	.2	8.2	13.8	3.9	.0	.0	26.1

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.2	.0	.0	.0	1.3	.0	1.0	.4	.0	.0	.0	1.4
1-2	.2	4.2	1.3	.0	.0	.0	5.7	.5	3.3	1.0	.0	.0	.0	4.8
3-4	.0	1.9	4.5	.4	.0	.0	6.8	.0	1.6	4.0	.0	.0	.0	5.6
5-6	.0	.4	3.3	.0	.0	.0	3.7	.0	1.0	1.8	.0	.0	.0	2.8
7	.0	.0	.8	.0	.0	.0	.3	.0	.0	.6	.6	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.6	10.0	.7	.0	.0	18.3	.6	6.9	7.8	1.0	.0	.0	16.2

PERIOD: (OVER-ALL) 1969-1979

OCTOBER

AREA 0010 FLORIANOPOLIS
26.6S 45.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.6	.0	.0	.0	.0	1.1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	3.3	.3	.0	.0	.0	3.8	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	1.2	4.2	.1	.0	.0	5.5	.0	1.1	1.4	.2	.0	.0	2.7	
5-6	.0	1.0	3.3	.2	.0	.0	4.7	.0	.8	1.9	.0	.0	.0	1.9	
7	.0	.0	1.2	.9	.0	.0	1.7	.0	.0	.8	.2	.0	.0	.3	
8-9	.0	.0	.0	.3	.3	.0	1.1	.0	.0	.0	.8	.0	.0	.8	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	6.3	9.2	2.1	.3	.0	18.6	.0	3.1	3.7	.3	.0	.0	7.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
1-2	.0	.2	.3	.0	.0	.0	.3	.0	.6	.4	.0	.0	.0	1.0	
3-4	.0	.2	.3	.0	.0	.0	.3	.0	.1	.4	.2	.0	.0	.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.5	.1	.0	.0	1.3	.2	.9	1.6	.2	.0	.0	2.9	38.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	4.4	.9	.0	.0	.0	7.8	
1-2	.9	17.1	6.7	.0	.0	.0	24.8	
3-4	.0	9.8	20.4	1.5	.0	.0	31.7	
5-6	.2	3.6	16.9	.7	.0	.0	21.9	
7	.0	.7	4.7	2.9	.0	.0	8.4	
8-9	.0	.0	1.3	.3	.0	.0	2.6	
10-11	.0	.0	.2	1.1	.0	.0	1.3	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	35.7	31.4	8.7	.3	.0	100.0	368

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	9.4	13.5	7.2	1.9	.9	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	408	4
6-7	.0	1.3	10.3	11.8	9.2	2.3	1.3	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	384	5
8-9	.0	.3	1.3	3.3	4.3	3.1	1.2	.7	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	173	7
10-11	.0	.3	.9	1.9	1.3	1.1	1.1	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
12-13	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
15-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
18-20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	5
21-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1135	5
TOTAL	2.8	14.3	31.0	29.5	19.2	9.1	4.9	2.7	2.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	2.8	12.6	28.0	26.0	13.3	6.0	4.3	2.4	2.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.03 45.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	.0	2.7	.0	.0	.0	.0	3.3	.8	1.9	.4	.0	1.2	.0	90.4
NE	2.3	1.3	2.9	.0	.0	.0	.0	6.0	1.3	1.3	.8	.2	1.3	.2	88.3
E	2.9	1.3	2.0	.0	.0	.0	.0	6.0	1.3	.8	1.2	.0	.7	.0	90.6
SE	3.2	1.0	1.9	.0	.0	.0	.0	3.8	3.3	.4	.8	.0	.2	.0	89.6
S	.9	3.2	2.1	.0	.0	.0	.0	7.2	4.4	.6	.4	.0	.9	.0	86.3
SW	2.7	2.3	1.4	.0	.0	.0	.0	6.6	3.3	2.3	.0	.0	.2	.0	88.2
W	3.7	1.9	2.8	.0	.0	.0	.0	8.4	3.7	7.8	.0	.0	.0	.0	80.4
NW	18.3	.0	.0	.0	.0	.0	.0	18.3	3.6	2.8	.0	.0	.0	.0	73.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	94.1
TOT PCT	2.8	1.6	2.1	.0	.0	.0	.0	6.2	2.4	1.0	1.0	.1	.8	.1	88.7
TOT OBS: 1781															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.3	1.9	2.1	.0	.0	.0	.0	6.3	2.3	1.9	1.3	.0	.4	.0	88.4
0600	4.1	1.4	3.3	.0	.0	.0	.0	8.6	1.9	1.7	.7	.0	.5	.0	86.8
1200	2.8	1.4	2.0	.0	.0	.0	.0	3.8	3.0	.2	1.4	.2	.8	.0	88.7
1800	2.3	1.4	1.1	.0	.0	.0	.0	4.6	1.8	.3	.9	.0	1.8	.2	90.4
TOT PCT	2.8	1.9	2.1	.0	.0	.0	.0	6.3	2.3	1.0	1.1	.1	.9	.1	88.6
TOT OBS: 1893															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PREG	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	3.8	3.4	.3	.0	.0		8.3	11.4		6.2	6.3	8.2	14.1	10.8	10.3	7.1	11.3
NE	1.4	11.1	12.2	2.3	.2	.0		27.4	12.3		26.8	23.9	27.1	38.2	28.2	23.7	28.3	27.9
E	1.1	9.7	6.1	1.2	.2	.0		18.3	11.1		20.6	21.0	16.0	13.0	13.7	16.0	18.2	26.9
SE	1.1	8.4	3.8	1.1	.0	.0		16.4	11.0		19.1	18.1	16.1	10.9	12.4	13.3	16.6	19.6
S	.9	3.7	4.3	1.9	.2	.4		13.2	13.0		12.0	14.3	12.0	13.8	12.1	14.2	15.6	5.4
SW	.3	3.3	2.9	1.4	.2	.0		8.3	13.8		7.1	7.3	7.8	8.2	6.9	9.9	8.6	3.4
W	.4	1.3	.4	.2	.0	.0		2.2	9.3		1.3	1.7	2.4	.0	3.3	2.9	1.3	1.3
NW	.0	1.2	.4	.1	.0	.0		1.8	8.7		1.2	1.7	2.2	.0	1.9	2.7	1.3	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.6	2.3	3.2	.0	2.4	2.6	1.6	.0
TOT OBS	918	2811	2981	339	32	2	6323		11.7		1170	772	1126	83	1134	879	1136	31
TOT PCT	8.7	64.3	37.7	8.8	.8			100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PREG	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.8	4.8	1.8	.1	.0			8.3	11.4		6.2	6.3	7.2
NE	3.2	14.9	4.4	.0	.1			27.4	12.3		26.8	23.9	28.3
E	4.7	10.2	2.9	.4	.0			18.3	11.1		20.6	17.8	18.7
SE	4.3	8.7	3.0	.3	.0			16.4	11.0		19.1	15.8	16.7
S	3.2	7.3	4.0	.7	.1			13.2	13.0		12.0	14.9	16.2
SW	1.9	3.5	2.3	.6	.1			8.3	13.8		7.1	7.3	8.4
W	1.0	.9	.3	.0	.0			2.2	9.3		1.3	2.3	1.3
NW	.7	.9	.1	.0	.0			1.8	8.7		1.2	2.1	1.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	2.2							2.2	.0		1.6	2.0	1.5
TOT OBS	1392	3221	1311	184	3	6323		11.7			1942	1181	1187
TOT PCT	23.2	50.9	20.7	2.9	.2			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

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AREA 0010 FLORIANOPOLIS
26.83 49.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				4-6	MEAN	PCT	TOTAL
				11-21	22-23	24-47				FREQ	DBS
0000	1.9	3.3	43.3	38.8	9.8	.9	.1	12.0	100.0	1942	
0400	3.0	3.3	43.9	36.7	8.0	.8	.0	11.3	100.0	1181	
1200	2.3	6.7	43.4	36.1	8.6	.7	.0	11.4	100.0	2013	
1800	1.8	6.0	43.8	39.8	9.4	.8	.0	11.9	100.0	1187	
TOT	141	377	2811	2381	539	32	2	11.7			8323
PCT	2.2	6.0	44.3	37.7	8.8	.8	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL DBS	MEAN CLOUD COVER
N	2.8	1.1	2.0	1.3		4.3
NE	8.9	4.6	9.7	7.4		4.7
E	3.3	4.2	9.8	4.4		4.5
SE	4.3	3.1	6.4	3.9		4.7
S	4.0	2.6	6.9	3.6		4.3
SW	1.9	1.1	3.1	1.1		4.7
W	.9	.2	.6	.4		4.7
NW	.2	.6	.3	.4		3.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.2	.1	.2		3.3
TOT DBS	384	229	411	310	1334	4.7
TOT PCT	28.8	17.2	30.8	23.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

DBS	100	200	300	400	1000	2000	3000	5000	6000	8000+	NM <5/8 ANY HGT	TOTAL DBS
149	299	599	999	1999	3999	7999	15999	31999	63999	127999		
N	.0	.0	.2	.4	1.0	.4	.3	.1	.1	.0	3.3	
NE	.0	.1	.8	1.6	4.0	2.3	2.0	.7	.2	.1	18.6	
E	.1	.0	.9	1.1	2.3	2.1	.8	.4	.1	.1	12.6	
SE	.1	.0	.9	.6	2.6	1.7	.6	.2	.1	.1	9.8	
S	.2	.1	.2	.6	2.1	1.7	.9	.5	.1	.0	7.9	
SW	.0	.1	.2	.5	1.1	.4	.0	.0	.0	.1	4.3	
W	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	1.1	
NW	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
TOT DBS	6	9	16	32	177	118	71	25	7	6	813	1334
TOT PCT	.4	.2	1.2	6.1	14.0	8.8	5.3	1.9	.5	.4	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>30	>10	>5	>2	>1
>3000	.7	.6	1.0	1.0	1.0	1.0	1.0	1.0	.7	.6	1.0	1.0
>2000	2.2	2.6	2.8	2.8	2.9	2.9	2.9	2.9	2.2	2.6	2.8	2.8
>1000	9.6	7.7	8.6	8.6	8.7	8.7	8.7	8.7	9.6	7.7	8.6	8.6
>500	11.8	13.7	17.3	17.4	17.5	17.5	17.5	17.5	11.8	13.7	17.3	17.4
>100	21.9	28.8	30.9	31.2	31.3	31.3	31.3	31.3	21.9	28.8	30.9	31.2
>50	23.4	34.4	37.1	37.4	37.5	37.5	37.5	37.5	23.4	34.4	37.1	37.4
>30	26.0	35.4	38.2	38.6	38.7	38.7	38.7	38.7	26.0	35.4	38.2	38.6
>10	29.1	33.6	38.4	38.8	38.9	38.9	38.9	38.9	29.1	33.6	38.4	38.8
>5	29.3	33.7	38.9	39.3	39.4	39.4	39.4	39.4	29.3	33.7	38.9	39.3
TOTAL	387	481	528	534	536	536	536	536	387	481	528	534

TOTAL NUMBER OF DBS: 1334

PCT FREQ NM <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	DBS	TOTAL DBS
	11.0	14.7	12.9	11.8	9.3	7.6	6.4	9.0	16.7	.4	1439	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1963-1973

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26.65 43.8W

TABLE 8

PERCENT FREE OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	N'	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	
1<2	PCP	.1	.1	.0	.0	.2	.0	.0	.1	.0	.0	.4	
	NO PCP	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.2	.1	.2	.0	.0	.1	.0	.0	.7	
2<5	PCP	.1	.6	.3	.3	.3	.7	.0	.0	.0	.0	2.6	
	NO PCP	.4	.8	.5	.3	.2	.3	.0	.1	.0	.0	2.4	
	TOT %	.5	1.3	.8	.6	.5	.5	.0	.1	.0	.0	4.9	
5<10	PCP	.1	.8	.6	.4	.5	.1	.1	.1	.0	.0	2.7	
	NO PCP	1.4	7.1	4.5	3.3	2.5	1.3	.4	.2	.0	.1	21.1	
	TOT %	1.5	7.8	5.2	3.9	3.0	1.6	.4	.2	.0	.1	23.8	
10+	PCP	.1	.4	.3	.3	.1	.0	.1	.0	.0	.0	1.4	
	NO PCP	9.0	21.1	14.1	11.3	10.7	9.0	1.0	.6	.0	.9	69.7	
	TOT %	9.1	21.5	14.4	11.6	10.8	9.1	1.0	.6	.0	.9	71.1	
TOT OBS													1784
TOT PCT													7.2 30.9 20.5 16.3 14.4 7.2 1.3 1.0 .0 1.0 106.0

TABLE 9

PERCENT FREE OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.4	.3	.2	.1	.0	.0	.0	.0	1.4	
	11-21	.3	.6	.1	.3	.3	.2	.1	.0	.0	.0	1.8	
	22+	.0	.2	.0	.2	.1	.1	.0	.0	.0	.0	.9	
	TOT %	.4	1.0	.7	.8	.7	.4	.1	.0	.0	.0	4.3	
5<10	0-3	.1	.2	.2	.2	.1	.1	.1	.0	.0	.4	1.3	
	4-10	.7	2.6	1.9	1.3	1.0	.7	.4	.2	.0	.0	9.1	
	11-21	.6	2.7	1.3	1.4	1.2	.6	.1	.1	.0	.0	8.0	
	22+	.4	.7	.7	.6	.3	.0	.0	.0	.0	.0	2.6	
	TOT %	1.4	6.2	4.0	3.4	2.9	1.8	.6	.4	.0	.4	21.0	
10+	0-3	.4	.9	.7	.3	.6	.2	.2	.1	.0	1.2	4.8	
	4-10	2.6	8.4	7.7	6.7	4.6	2.3	1.0	.9	.0	.0	34.4	
	11-21	2.3	9.6	5.2	4.1	3.2	2.3	.3	.2	.0	.0	29.4	
	22+	.3	1.4	.5	.2	1.2	1.2	.1	.0	.0	.0	5.0	
	TOT %	5.7	20.3	14.1	11.3	11.7	6.2	1.6	1.2	.0	1.2	79.7	
TOT OBS													3481
TOT PCT													7.6 27.9 19.1 13.9 13.4 8.3 2.4 1.7 .0 1.6 100.0

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0010 FLORIANOPOLIS
26.63 43.64

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL DBS
0000	.9	.0	1.7	5.2	16.0	7.8	3.8	2.6	.3	.9	39.2	80.8	744
0600	.6	.0	.6	6.6	13.4	7.8	6.3	1.9	.3	.3	37.8	62.2	320
1200	.3	.3	.8	6.9	12.4	8.3	6.3	1.6	.3	.3	38.4	61.6	378
1800	.0	.3	1.4	3.2	11.7	10.1	6.0	1.4	.8	.3	37.2	62.8	366
TOT	7	3	16	64	188	121	79	26	7	6	537	871	1408
PCT	.9	.2	1.1	6.0	13.4	8.6	5.6	1.8	.3	.4	38.1	61.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL DBS
0000	.1	.2	.3	4.3	22.7	72.3	1032
0600	.3	.1	1.1	3.0	22.8	70.7	719
1200	.0	.2	1.3	4.8	20.3	73.4	1039
1800	.1	.1	1.1	4.2	19.6	74.9	749
TOT	4	6	34	161	733	2878	3939
PCT	.1	.2	1.0	4.6	21.4	72.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NM <3/8 AND 3+	TOTAL DBS
0000	.9	2.8	12.2	31.5	56.3	227
0600	.6	1.6	13.2	28.1	58.7	310
1200	.3	1.9	12.7	26.6	60.4	369
1800	.0	2.0	11.3	29.2	59.3	353
TOT	7	28	168	392	799	1339
PCT	.9	2.1	12.4	28.6	58.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
89/89	.0	.0	.1	.1	.1	.0	.1	.0	4	.3
88/88	.0	.0	.0	.3	.6	.1	.1	.1	16	1.1
79/79	.0	.1	.1	.7	2.2	3.4	4.9	2.3	193	13.6
78/78	.0	.0	.1	.9	7.3	14.3	11.0	18.0	863	62.1
69/69	.0	.0	.0	1.4	3.2	9.0	9.4	1.7	289	20.7
68/68	.0	.0	.0	.3	.2	.6	.4	.3	27	1.9
TOTAL	0	1	3	48	216	336	443	343	1394	100.0
PCT	.0	.1	.2	3.4	15.5	24.1	31.9	24.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0
88/88	.1	.7	.2	.0	.0	.1	.0	.0	.0	.0
79/79	1.6	3.3	2.3	1.2	1.1	1.2	.4	.0	.0	.4
78/78	4.0	20.8	13.6	9.9	7.3	4.1	1.1	.7	.0	.6
69/69	1.0	3.8	3.4	4.8	3.0	2.1	.3	.2	.0	.1
68/68	.1	.1	.0	.3	.9	.4	.0	.0	.0	.0
TOTAL	6.9	31.0	19.8	16.4	14.3	7.8	1.8	1.0	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	81	77	73	71	66	63	33	70.6	1946
0600	79	76	74	70	63	62	33	69.9	1188
1200	84	81	78	72	67	64	37	72.3	1960
1800	87	83	80	73	67	63	62	73.2	1190
TOT	87	81	77	72	66	63	33	71.3	6244

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	1.3	12.3	22.4	33.1	30.7	82	164		
0600	.0	1.2	12.7	21.9	33.3	28.7	82	164		
1200	.0	4.8	14.3	24.3	32.3	21.6	80	163		
1800	.0	7.6	20.1	28.0	26.3	17.7	77	163		
TOT	0	92	217	341	431	330	80	1411		

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1863-1973

AREA 0010 FLORIANOPOLIS
26.68 45.0W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	83 88	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.1	7	.0	.4
9/10	.0	.0	.0	.0	.1	.2	.2	.1	9	.0	.6
7/8	.0	.0	.1	.1	.9	.6	.5	.1	30	.0	1.9
6	.0	.0	.0	.9	.5	.6	.0	.0	21	.0	1.3
5	.0	.0	.1	.2	.7	1.1	.1	.0	33	.0	2.1
4	.0	.0	.1	1.0	2.0	.9	.1	.0	62	.1	3.8
3	.0	.0	.0	1.5	3.4	.5	.0	.0	85	.1	5.4
2	.0	.0	.9	3.1	4.5	.3	.0	.0	122	.2	8.2
1	.0	.0	.4	5.2	5.4	.3	.0	.0	177	.1	11.2
0	.0	.1	1.7	10.3	6.4	.5	.0	.0	298	.3	18.8
-1	.0	.0	1.6	9.4	3.3	.1	.0	.0	227	.0	14.5
-2	.0	.0	2.6	7.7	1.8	.0	.0	.0	189	.0	12.1
-3	.0	.1	2.3	4.0	.4	.0	.0	.0	107	.0	6.8
-4	.0	.4	2.1	2.2	.2	.0	.0	.0	77	.0	4.9
-5	.1	.3	1.3	1.3	.3	.1	.0	.0	53	.0	3.4
-6	.0	.3	1.1	.9	.0	.0	.0	.0	34	.1	2.0
-7/-8	.0	.3	.7	.9	.0	.0	.0	.0	21	.0	1.3
-9/-10	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
-11/-12	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
-13/-14	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	3	29	739	484	79	3	1968	.9	99.1		
PCT	.2	1.8	14.8	47.1	29.6	5.0	1.1	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.2	.0	.0	.0	.0	.3	.0	.6	.2	.0	.0	.0	.7
1-2	.0	1.8	1.6	.0	.0	.0	3.1	.3	4.6	2.2	.0	.0	.0	7.1
3-4	.0	.4	2.8	.0	.0	.0	3.3	.0	3.3	7.7	.2	.0	.0	11.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.9	4.6	.6	.0	.0	5.4
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	1.9	.6	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	5.1	.2	.0	.0	7.5	.3	9.5	16.6	2.4	.2	.0	29.0

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.2	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	5.1	1.6	.0	.0	.0	7.7	.2	3.1	1.7	.0	.0	.0	7.1
3-4	.0	2.0	3.2	.0	.0	.0	5.2	.0	1.3	3.0	.0	.0	.0	4.2
5-6	.0	.7	2.5	.4	.0	.0	3.6	.0	.4	2.1	.0	.0	.0	2.9
7	.0	.1	.5	.2	.2	.0	1.1	.0	.4	1.2	.9	.0	.0	1.7
8-9	.0	.0	.4	.2	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	9.7	8.5	1.2	.2	.0	19.7	.2	7.3	8.4	.7	.0	.0	16.6

PERIOD: (OVER-ALL) 1949-1979

NOVEMBER

AREA 0010 FLORIANOPOLIS
26.05 45.8W

TABLE 18 (CONT)

PCT PRIO OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.3	.3	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3	
1-2	.6	3.2	.2	.0	.0	.0	4.0	.0	1.4	.6	.0	.0	.0	2.0	
3-4	.0	1.8	2.4	.1	.0	.0	4.3	.0	1.2	1.0	.0	.0	.0	2.2	
5-6	.2	.2	2.3	.2	.0	.0	2.8	.0	.3	1.1	.0	.0	.0	1.6	
7	.2	.0	1.3	.8	.0	.0	2.3	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.3	.2	.0	.0	.7	.0	.0	.1	.0	.2	.0	.2	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	5.3	7.0	2.0	.1	.0	15.8	.0	3.4	3.2	.8	.3	.0	7.9	

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	.0	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.9	.4	.0	.0	.0	1.3	.0	.1	.0	.0	.0	.0	.1	
3-4	.0	.2	.2	.0	.0	.0	.3	.0	.2	.1	.0	.0	.0	.3	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.1	.7	.0	.0	.0	1.9	.0	.0	.2	.0	.0	.0	.9	99.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

WGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	1.0	3.1	.2	.0	.0	.0	4.9	
1-2	1.1	23.8	8.3	.0	.0	.0	33.2	
3-4	.0	10.7	20.2	.3	.0	.0	31.2	
5-6	.2	3.6	12.3	1.1	.0	.0	16.2	
7	.2	.2	3.8	2.4	.2	.0	6.7	
8-9	.0	.0	2.1	.3	.2	.0	2.6	
10-11	.0	.0	.2	1.9	.0	.0	2.1	
12	.0	.0	.3	.3	.0	.0	.6	
13-16	.0	.0	.2	.2	.0	.0	.3	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.3	.0	.0	.2	
23-25	.0	.0	.0	.3	.3	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	39.3	49.3	7.1	1.0	.0	100.0	618

PERIOD: (OVER-ALL) 1949-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN WGT
40	2.0	13.0	14.7	6.6	3.4	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	469	3
4-7	.0	1.7	10.2	10.1	3.0	2.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	330	3
8-9	.0	.3	1.9	3.4	3.4	2.3	1.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	7
10-11	.0	.1	.1	.7	1.1	1.1	.3	.0	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	31	9
12-13	.0	.0	.2	.3	.1	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
13	.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	3	11
140ET	.9	1.0	2.9	2.6	1.3	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
TOTAL	29	107	329	274	177	81	32	12	9	3	2	4	1	0	0	0	0	0	0	1130	5
PCT	2.3	16.3	29.5	23.8	13.4	7.0	2.8	1.0	.8	.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973AREA 0010 FLORIANOPOLIS
26.85 45.7M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	3.2	1.5	1.5	.0	.0	.0	.0	6.2	.0	4.0	.0	.0	.9	.0	88.9	
NE	1.9	1.4	.3	.0	.0	.0	.0	3.6	.3	1.2	.9	.0	1.8	.0	92.7	
E	1.3	1.3	1.3	.0	.0	.0	.0	4.0	2.8	.3	1.3	.0	.4	.0	91.3	
SE	3.7	1.7	2.3	.0	.0	.0	.0	7.1	3.3	.4	.6	.0	.3	.0	88.7	
S	.5	2.9	.4	.0	.0	.0	.0	3.9	1.7	.3	.0	.0	.7	.0	93.2	
SW	3.9	2.0	7.2	.0	.0	.0	.0	8.1	.5	2.0	.0	.0	2.9	.0	86.3	
W	.0	.0	4.3	.0	.0	.0	.0	4.3	3.2	.0	.0	.0	4.3	.0	88.2	
NW	5.2	2.9	2.3	.0	.0	.0	.0	10.3	.6	.0	.0	.0	.0	.0	89.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALP	4.8	.0	9.3	.0	.0	.0	.0	14.3	.0	4.8	4.8	4.8	.0	.0	71.4	
TOT PCT	2.3	1.7	1.4	.0	.0	.0	.0	5.3	1.6	1.1	.6	.1	1.0	.0	90.3	
TOT OBS:	1393															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	1.7	2.9	.6	.0	.0	.0	.0	3.2	2.3	2.6	.6	.0	.3	.0	89.3
0600	4.8	1.6	2.2	.0	.0	.0	.0	8.6	2.2	1.9	.6	.3	.0	.0	86.3
1200	1.3	1.3	1.3	.0	.0	.0	.0	4.0	.9	.0	.9	.0	1.8	.0	93.2
1800	1.9	1.4	1.4	.0	.0	.0	.0	4.3	1.4	.0	.9	.0	1.6	.0	92.1
TOT PCT TOT OBS:	2.4 1429	1.7	1.4	.0	.0	.0	.0	3.4	1.3	1.0	.6	.1	1.0	.0	90.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	4.4	3.8	.5	.0	.0		9.3	11.2	6.3	8.0	10.1	2.4	11.4	11.4	8.9	7.8
NE	1.2	11.9	12.3	2.0	.2	.0		27.4	11.9	27.8	28.8	27.1	24.2	27.3	27.4	26.3	23.8
E	1.1	9.8	6.7	.5	.0	.0		18.1	10.1	19.7	20.0	17.9	37.1	16.2	19.1	19.0	30.3
SE	.6	9.4	4.3	.9	.0	.0		17.5	10.7	20.4	17.2	17.8	16.9	19.0	16.7	17.4	18.0
S	.9	9.6	9.0	1.5	.1	.0		19.0	12.1	14.4	11.8	11.8	8.1	11.9	13.7	14.7	10.2
SW	.6	2.9	2.4	.9	.1	.0		6.9	12.2	9.8	7.4	9.7	6.3	8.8	7.7	6.3	1.6
W	.3	1.2	.6	.2	.0	.0		2.4	10.4	1.4	1.9	2.6	4.8	3.1	2.4	2.7	3.1
NW	.3	1.6	.8	.1	.0	.0		2.8	9.3	2.3	2.1	3.1	.0	3.4	3.4	2.6	3.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	2.6							2.6	.0	1.7	3.1	4.2	.0	2.8	3.3	1.6	.0
TOT OBS	513	2797	2398	393	24	2	5987		10.9	1070	781	1037	31	1090	784	1092	32
TOT PCT	8.6	46.7	37.7	6.6	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.2	3.2	1.8	.1	.0	9.3	11.2	7.0	9.9	11.4	8.8			
NE	3.5	16.1	3.4	.3	.1	27.4	11.9	28.2	27.1	27.4	26.3			
E	3.0	11.0	1.9	.1	.0	18.1	10.1	19.6	18.1	13.7	19.4			
SE	4.6	10.0	2.7	.2	.0	17.5	10.7	19.2	17.8	13.6	17.3			
S	3.3	6.3	2.1	.4	.0	13.0	12.1	13.2	11.1	12.7	14.6			
SW	2.1	2.7	1.8	.3	.0	6.9	12.2	6.3	9.7	6.3	6.3			
W	.9	1.0	.4	.1	.0	2.4	10.4	1.6	2.6	2.8	2.8			
NW	1.0	1.3	.3	.0	.0	2.8	9.3	2.2	3.0	3.4	2.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALP	2.6					2.6	.0	2.3	4.1	2.6	1.6			
TOT OBS	1623	3212	1042	101	7	5987		1821	1088	1974	1124			
TOT PCT	27.1	53.6	17.4	1.7	.1		100.0	100.0	100.0	100.0	100.0			

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.05 49.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.3	4.8	46.1	39.2	7.0	.6	.1	11.4	100.0	1821
0600Z	4.1	8.9	47.9	34.5	6.1	.5	.0	10.3	100.0	1068
1200Z	2.8	7.1	47.1	36.8	6.1	.3	.1	10.6	100.0	1974
1800Z	1.6	3.8	46.0	39.9	7.0	.3	.0	11.3	100.0	1124
TOT	154	259	2797	2258	393	24	2	10.9		5987
PCT	2.6	6.0	46.7	37.7	6.6	.4	*	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	2.8	1.5	2.3	2.4		4.5
NE	9.2	4.2	8.8	4.9		4.2
E	5.7	3.0	7.0	3.5		4.5
SE	4.0	3.8	6.1	3.4		4.8
S	4.2	2.8	4.6	2.1		4.4
SW	2.2	1.6	2.2	1.3		4.5
W	.4	.1	.7	.6		3.8
NW	.8	.3	.6	.9		4.7
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.2	.2		3.4
TOT OBS	323	197	350	205	1077	4.3
TOT PCT	30.2	18.8	32.5	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	5000	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	OBS
N	.5	.0	.2	.2	.7	.8	.1	.2	.1	.0	6.6
NE	.5	.0	.3	1.1	2.7	2.1	.4	.6	.1	.0	19.1
E	.0	.0	.3	.8	2.8	1.0	1.9	.2	.2	.3	12.8
SE	.0	.0	.2	1.2	1.3	2.1	1.3	.2	.2	.1	10.5
S	.1	.1	.1	.4	1.6	1.7	.4	.0	.0	.1	8.7
SW	.2	.0	.0	.3	1.0	.3	.1	.2	.0	.0	5.0
W	.0	.0	.1	.1	.3	.2	.1	.0	.0	.0	1.0
NW	.0	.0	.0	.3	.3	.2	.1	.1	.1	.0	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.2
TOT OBS	10	1	13	47	119	90	59	18	7	5	714
TOT PCT	.9	.1	1.2	4.4	11.0	8.4	4.9	1.7	.6	.5	66.3
											1077
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1	>0
>OR >9000	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.2
>OR >8000	1.8	2.4	2.7	2.9	2.9	2.9	2.9	2.9
>OR >7000	5.2	6.3	7.2	7.5	7.5	7.5	7.5	7.5
>OR >6000	11.3	14.4	13.5	15.8	15.6	15.6	15.6	15.6
>OR >5000	20.1	25.1	26.3	26.8	26.8	26.8	26.8	26.8
>OR >4000	23.9	29.2	30.3	31.1	31.1	31.1	31.1	31.1
>OR >3000	24.3	30.2	31.6	32.2	32.2	32.2	32.2	32.2
>OR >2000	24.4	30.3	31.7	32.3	32.3	32.3	32.3	32.3
>OR >1500	24.6	30.3	32.3	33.1	33.3	33.3	33.3	33.3
>OR >1000	24.6	30.3	32.3	33.1	33.3	33.3	33.3	33.3
TOTAL	267	332	353	340	362	362	362	362

TOTAL NUMBER OF OBS: 1087

PCT FREQ NM <5/8: 66.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
	13.7	14.5	17.5	11.2	9.2	6.8	7.0	8.7	10.3	.9	1140

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.63 49.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.1	.2	.2	.2	.0	.0	.0	.0	.0	.6	
2<5	PCP	.1	.2	.1	.0	.0	.2	.0	.1	.0	.0	.7	
	NO PCP	.2	.3	.4	.2	.4	.1	.1	.0	.0	.0	1.8	
	TOT %	.3	.5	.5	.2	.4	.4	.1	.1	.0	.0	2.5	
5<10	PCP	.3	.4	.3	.6	.3	.2	.1	.1	.0	.1	2.9	
	NO PCP	1.2	4.6	3.0	3.3	2.8	1.3	.3	.4	.0	.0	17.2	
	TOT %	1.5	5.0	3.4	4.1	3.1	1.7	.4	.5	.0	.1	20.1	
10+	PCP	.0	.4	.3	.6	.2	.2	.0	.1	.0	.1	1.7	
	NO PCP	4.3	20.2	14.3	13.3	9.9	3.1	1.1	2.3	.0	1.1	75.1	
	TOT %	4.3	20.6	14.6	14.2	10.1	3.3	1.1	2.4	.0	1.2	76.8	
TOT OBS		1392											
TOT PCT		8.4	26.2	19.7	18.6	13.5	7.3	1.7	3.1	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	6-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.1	.1	.0	.0	.1	.0	.0	.7	
2<5	0-5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	6-10	.1	.4	.2	.1	.0	.1	.1	.0	.0	.0	1.0	
	11-21	.1	.2	.2	.2	.1	.1	.1	.0	.0	.0	1.1	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.3	.7	.5	.3	.3	.3	.2	.1	.0	.0	2.7	
5<10	0-5	.0	.1	.1	.1	.1	.1	.1	.1	.0	.5	1.1	
	6-10	.7	1.6	1.3	1.3	.8	.3	.3	.1	.0	.0	6.5	
	11-21	.6	2.7	1.4	1.3	1.0	.4	.0	.3	.0	.0	7.7	
	22+	.2	.4	.0	.1	.3	.1	.0	.0	.0	.0	1.4	
	TOT %	1.6	4.9	2.8	2.9	2.3	1.1	.4	.5	.0	.5	16.8	
10+	0-5	.3	.8	.9	.6	.3	.2	.3	.0	1.7	.0	6.3	
	6-10	3.1	10.6	8.6	8.1	4.7	2.3	1.1	1.3	.0	.0	40.2	
	11-21	3.1	10.1	5.3	4.7	3.9	1.9	.9	.4	.0	.0	29.9	
	22+	.3	.9	.1	.4	.9	.3	.1	.0	.0	.0	3.1	
	TOT %	6.9	22.4	15.2	14.0	10.1	5.3	1.7	2.0	.0	1.7	79.9	
TOT OBS		3103											
TOT PCT		8.8	28.2	18.7	17.3	12.8	6.9	2.4	2.7	.0	2.2	100.0	

DECEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

AREA 0010 FLORIANOPOLIS
26.0S 49.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
0000Z	.7	.0	1.8	4.8	14.0	6.6	4.4	1.8	1.1	.4	39.7	64.3	272
0600Z	2.9	.0	1.6	2.9	9.4	8.2	3.3	2.0	.8	.4	32.6	66.4	244
1201Z	.3	.3	.3	3.1	9.9	11.2	5.4	1.4	.0	.7	34.7	65.3	294
1802Z	.3	.0	.9	3.8	9.4	6.6	4.4	1.3	.9	.3	27.9	72.1	319
TOT PCT	11 1.0	1 .1	13 1.2	47 4.2	120 10.6	92 8.1	93 4.9	18 1.6	8 .7	5 .4	370 32.8	759 67.2	1129 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.4	.3	.7	2.3	19.9	70.4	918
0600Z	.3	.2	.8	3.6	16.9	78.1	688
1201Z	.1	.0	.6	2.9	16.3	79.8	931
1802Z	.0	.2	.9	1.8	13.7	83.4	864
TOT PCT	7 .2	3 .2	23 .7	83 2.6	934 17.0	2489 79.2	3141 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 FEET	<600 FEET	<1000 FEET	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
0000Z	.8	2.7	8.3	28.3	63.1	260
0600Z	3.0	4.7	9.8	23.8	66.4	233
1201Z	.3	1.0	9.7	26.3	64.0	289
1802Z	.3	1.0	6.3	22.1	71.6	303
TOT PCT	11 1.0	24 2.2	92 8.3	273 23.1	782 66.4	1087 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.1	.4	.1	.1	.0	7	.6
88/84	.0	.0	.0	.2	.7	1.3	2.8	.3	61	5.6
79/79	.0	.0	.3	1.3	2.9	10.2	14.7	6.8	422	38.3
70/74	.0	.0	.1	1.8	9.1	12.6	12.9	12.7	340	29.2
69/69	.0	.0	.0	.7	1.1	1.2	1.3	1.4	64	5.6
68/64	.0	.0	.0	.0	.0	.0	.2	.1	3	.3
TOTAL PCT	.0	.0	.7	4.1	14.2	23.6	32.2	23.2	1097	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.3	.0	.0	.0	.1	.1	.0	.0	.0
88/84	1.3	2.2	.6	.3	.2	.3	.3	.2	.0	.4
79/79	4.2	10.8	6.3	3.9	3.1	3.0	.8	1.9	.0	.6
70/74	2.7	11.3	11.3	10.1	7.5	3.9	.8	1.0	.0	.3
69/69	.1	.9	1.1	2.2	.7	.3	.1	.2	.0	.0
68/64	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
TOTAL	8.3	23.8	19.3	18.7	13.7	7.7	1.8	3.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	80	78	73	68	61	63	73.4	1816
0600Z	82	79	77	71	68	61	62	72.6	1074
1201Z	88	85	81	75	69	61	64	75.1	1911
1802Z	92	85	82	76	70	61	66	75.9	1078
TOT	92	82	80	74	69	61	62	74.2	5879

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.4	10.8	22.2	35.9	26.6	82	287		
0600Z	.0	3.3	4.8	23.4	28.7	34.8	82	244		
1201Z	.0	3.3	14.7	23.3	35.3	19.3	80	300		
1802Z	.0	6.6	20.6	30.2	27.5	13.1	76	291		
TOT	0	96	139	283	329	263	80	1122		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1861-1973

DECEMBER

APEA 0010 FLORIANOPOLIS
26.6S 45.7W

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TCT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.1	.0	.0	.1	.2	4	.0	.3
9/10	.0	.0	.0	.1	.6	.2	.1	13	.0	1.0
7/8	.0	.0	.0	.2	.8	.6	.2	22	.0	1.7
6	.0	.0	.1	.2	.6	.3	.1	17	.0	1.3
5	.0	.0	.0	.5	1.0	.4	.2	26	.0	2.1
4	.0	.0	.2	.8	2.3	.4	.0	30	.0	4.0
3	.0	.0	.2	1.4	2.2	.2	.0	30	.0	4.0
2	.0	.2	.6	4.4	3.6	.2	.0	112	.0	8.9
1	.0	.1	1.5	3.9	3.3	.3	.0	138	.1	10.8
0	.0	.3	4.3	10.3	3.1	.2	.0	236	.0	18.7
-1	.0	.1	3.7	8.9	1.9	.1	.0	186	.2	14.6
-2	.0	.6	3.3	3.6	1.2	.0	.0	160	.0	12.7
-3	.0	.9	4.0	2.9	.4	.0	.0	103	.2	8.0
-4	.1	.2	4.3	1.0	.0	.0	.0	70	.0	5.3
-5	.0	.7	1.7	.4	.0	.0	.0	36	.1	2.8
-6	.0	.6	.8	.3	.1	.0	.0	22	.0	1.7
-7/-8	.1	.3	.6	.0	.0	.0	.0	12	.1	.9
-9/-10	.1	.2	.1	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	31	349	340	37	10		1263	7	1236
PCT	.3	4.0	27.6	42.8	21.3	2.9	.8	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT PRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.3	.1	.3	.0	.0	.0	.0	.3	.3
1-2	.0	1.6	.0	.0	.0	.0	1.6	.3	.3	6.3	2.2	.0	.0	.0	9.0	9.0
3-4	.3	1.0	1.0	.0	.0	.0	2.3	.3	.0	3.7	3.9	.3	.0	.0	9.9	9.9
5-6	.0	.0	1.9	.0	.0	.0	1.9	.3	.0	.3	4.1	.3	.0	.0	4.9	4.9
7	.0	.2	1.4	.3	.0	.0	1.9	.3	.0	.1	1.3	.8	.0	.0	2.2	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.3	.0	.3	.3	.0	.0	.0	.3	.0	.0	.3	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.1	4.3	.3	.3	.0	8.7	.3	.3	11.2	13.6	1.7	.0	.0	26.8	26.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.7	1.1	.0	.0	.0	.0	1.8	.3	.1	.7	.0	.0	.0	.0	.7	.7
1-2	.2	4.6	1.3	.0	.0	.0	6.3	.3	.6	3.3	.9	.0	.0	.0	9.0	9.0
3-4	.0	2.9	3.3	.0	.0	.0	6.4	.3	.0	2.2	1.9	.3	.0	.0	4.3	4.3
5-6	.0	.9	2.6	.0	.0	.0	3.3	.3	.0	.3	2.4	.3	.0	.0	3.0	3.0
7	.0	.0	.3	.3	.0	.0	.7	.3	.0	.0	.3	.3	.0	.0	.3	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.3	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	9.3	10.3	.3	.0	.0	21.0	.7	.7	6.9	3.7	.9	.0	.0	14.1	14.1

PERIOD: (OVER-ALL) 1969-1973

DECEMBER

AREA 0010 FLORIANOPOLIS
26.83 43.7V

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	7.7	2.8	.0	.0	15.1	.0	2.9	2.0	1.0	.0	.0	9.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.7	.0	.0	.0	2.4	.3	2.7	.3	.0	.0	.0	3.3	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.0	3.3	.0	.0	.0	.0	8.0	0.0
1-2	1.6	23.3	6.4	.0	.0	.0	31.4	1.6
3-4	.3	12.3	18.0	1.6	.0	.0	32.4	1.9
5-6	.0	2.1	13.9	1.9	.0	.0	18.0	2.0
7	.0	.3	4.6	2.7	.0	.0	7.6	2.7
8-9	.0	.3	.8	.0	.0	.0	1.1	1.1
10-11	.0	.0	.3	.3	.0	.0	1.3	1.3
12	.0	.0	.0	.3	.0	.0	.3	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.7	41.8	44.2	7.0	.3	.0	100.0	373

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	10.4	16.1	9.1	1.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	334	3
6-7	.1	1.9	12.6	11.2	5.9	2.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	5
8-9	.0	.1	2.3	3.3	2.4	1.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	6
10-11	.0	.3	.3	.6	.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	1.4	.1	.0	.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
>13	.0	.0	.0	.0	.2	.0	.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDEX	2.1	1.1	3.4	1.0	.9	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	3
TOTAL	43	118	317	224	100	41	23	2	9	0	1	0	0	0	0	0	0	0	0	878	4
PCT	4.9	13.4	36.1	25.5	11.4	4.7	2.6	.2	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1973
(OVERALL) 1894-1973

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AREA 0010 FLORIANOPOLIS
26.6S 49.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	ORZL	PRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	2.3	1.0	.9	.0	.0	.0	.0	4.3	1.1	2.2	2.0	.1	1.1	.0	89.3
NE	2.0	1.3	1.0	.0	.0	.0	.0	4.3	1.4	1.7	1.9	.0	1.6	.0	89.2
E	3.4	2.1	1.4	.0	.0	.0	.0	6.7	2.6	1.3	1.1	.1	.8	.0	87.4
SE	4.2	3.1	2.1	.0	.0	.0	.0	9.0	3.5	1.2	1.3	.0	.8	.1	84.4
S	3.4	2.4	1.9	.0	.0	.0	.0	7.3	3.1	.9	1.0	.0	.7	.0	87.0
SW	3.8	2.6	1.3	.0	.0	.0	.0	7.6	3.0	1.8	1.4	.2	1.0	.0	85.1
W	3.0	3.7	2.1	.0	.0	.0	.0	8.8	2.8	2.8	1.4	.0	1.0	.0	83.3
NW	3.3	1.3	1.6	.0	.0	.0	.0	8.3	2.4	3.3	2.0	.1	1.0	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.8	.8	.0	.0	.0	.0	3.4	1.3	4.1	2.3	.7	2.4	.0	86.2
TOT PCT	3.0	2.0	1.4	.0	.0	.0	.0	6.3	2.3	1.6	1.3	.1	1.1	.0	87.3
TOT OBS: 20691															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
0800Z	3.0	2.2	1.3	.0	.0	.0	.0	6.7	2.2	3.7	1.4	.0	.8	.0	85.3
0830Z	3.8	1.9	1.9	.0	.0	.0	.0	7.3	2.7	2.7	1.3	.1	.8	.0	83.3
1201Z	2.7	2.3	1.1	.0	.0	.0	.0	6.0	1.9	.2	1.8	.0	1.3	.0	88.8
1802Z	2.7	1.4	1.3	.0	.0	.0	.0	2.3	2.3	.2	1.8	.1	1.4	.0	89.2
TOT PCT TOT OBS: 21198	3.0	1.9	1.4	.0	.0	.0	.0	6.3	2.3	1.6	1.3	.1	1.1	.0	87.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	8.6	4.9	.8	.0	.0		12.2	11.3		9.8	10.8	12.7	13.1	13.9	13.8	11.7	13.7
NE	1.2	10.3	11.0	2.0	.1	.0		24.9	12.1		20.0	20.1	24.9	27.8	24.4	22.7	25.0	23.2
E	.9	7.6	9.1	.8	.1	.0		14.4	10.7		16.8	16.3	14.3	16.7	12.6	12.9	13.8	16.7
SE	.9	7.2	9.2	1.0	.1	.0		14.3	11.2		16.3	13.8	13.8	10.3	12.9	13.4	14.2	14.3
S	.9	9.9	9.9	1.6	.1	.0		13.6	12.6		14.7	12.3	12.6	14.4	13.0	13.1	13.4	14.1
SW	.6	3.7	3.9	1.8	.3	.0		10.4	13.7		9.0	9.3	9.9	8.6	11.3	11.9	10.6	7.8
W	.3	1.7	.9	.3	.1	.0		3.9	10.6		2.4	7.9	3.6	4.3	4.3	4.2	3.3	3.7
NW	.3	2.4	1.2	.2	.0	.0		4.2	9.4		2.3	3.4	4.3	3.6	3.0	3.3	3.9	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.3	3.0	3.2	1.1	2.3	2.3	1.8	.9
TOT OBS							77443		11.3		12904	9563	13675	929	14033	11137	14043	933
TOT PCT	8.6	44.1	37.7	8.3	.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	15
N	3.0	6.6	2.4	.2	.0			12.2	11.3		10.2	12.7	13.9	11.8
NE	3.0	13.8	3.6	.3	.0			24.9	12.1		20.0	20.1	24.9	23.0
E	3.8	8.2	2.2	.2	.0			14.4	10.7		16.8	16.3	14.3	12.7
SE	3.7	7.8	2.3	.3	.0			14.3	11.2		16.1	13.7	13.1	14.2
S	3.1	6.6	3.4	.3	.0			13.6	12.6		13.7	12.8	13.0	13.3
SW	2.3	4.2	3.0	.8	.1			10.4	13.7		9.1	9.3	11.7	10.7
W	1.3	1.4	.6	.2	.0			3.9	10.6		2.6	3.6	4.2	3.3
NW	1.6	2.1	.3	.0	.0			4.2	9.4		3.1	4.4	3.3	3.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.3							2.3	.0		2.6	3.1	2.3	1.7
TOT OBS						77443			11.3		2348	14204	29172	14000
TOT PCT	26.3	30.7	20.1	2.7	.2			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1934-1973

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26.6S 49.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT	TOTAL
				11-21	22-33	34-47			FREQ	OBS
0000	2.6	3.9	44.5	37.6	8.5	.9	-.1	11.6	100.0	23467
0600	3.1	6.3	45.7	36.2	8.0	.7	.9	11.2	100.0	14204
1200	2.3	7.0	43.5	37.4	8.7	.8	-.1	11.5	100.0	29172
1800	1.7	3.8	43.2	40.0	8.5	.7	-.1	11.8	100.0	14800
TOT								11.5		77443
PCT	2.3	6.3	44.1	37.7	8.5	.8	-.1		100.0	

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.6	2.3	3.3	2.1		4.1
NE	9.0	5.4	7.6	4.9		4.1
E	4.2	2.8	4.5	3.0		4.3
SE	3.1	2.6	4.7	3.4		3.0
S	3.7	2.8	4.5	4.7		4.9
SW	2.9	2.0	3.0	2.3		4.6
W	1.0	.4	.8	.7		4.3
NW	1.0	.6	.9	.8		4.3
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.3	.3		3.7
TOT OBS					15239	4.5
TOT PCT	30.1	19.1	20.9	21.8	100.0	

TABLE 5

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.3	1.2	.7	.4	.1	.1	.1	9.0	
NE	.1	.0	.3	1.3	2.6	1.6	1.1	.9	.1	.1	18.7	
E	.1	.0	.2	.9	1.8	1.2	.6	.2	.1	.1	9.0	
SE	.1	.0	.3	1.2	1.9	1.1	.9	.2	.1	.0	7.7	
S	.1	.1	.3	1.3	2.2	1.4	.7	.2	.1	.1	8.5	
SW	.1	.0	.1	.8	1.4	.7	.9	.2	.0	.0	6.2	
W	.0	.0	.0	.2	.3	.2	.2	.0	.0	.0	1.6	
NW	.0	.0	.0	.3	.3	.2	.2	.1	.0	.0	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	1.1	
TOT OBS											15239	
TOT PCT	.8	.2	1.3	7.0	12.1	7.2	4.5	1.4	.3	.3	64.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	VSBY (NM)							
CEILING (FEET)	> OR >10	> OR >3	> OR >2	> OR >1	> OR >1/2	> OR >1/4	> OR >80YD	> OR >0
> OR >3000	.8	.9	1.0	1.0	1.0	1.0	1.0	1.0
> OR >2000	1.7	2.2	2.3	2.3	2.4	2.4	2.4	2.4
> OR >1500	4.8	6.3	6.8	6.8	6.9	6.9	6.9	6.9
> OR >1000	10.0	13.1	13.9	14.0	14.1	14.1	14.1	14.1
> OR >400	18.7	24.6	25.2	26.1	26.1	26.2	26.2	26.2
> OR >200	23.2	31.0	32.7	33.0	33.0	33.1	33.1	33.1
> OR >100	25.9	32.3	34.1	34.4	34.5	34.5	34.5	34.5
> OR >50	24.0	32.3	34.3	34.6	34.7	34.7	34.7	34.7
> OR >0	24.1	32.9	34.8	35.3	35.4	35.5	35.6	35.6

TOTAL NUMBER OF OBS: 15447

PCT FREQ NM <5/8: 64.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.9	14.6	15.2	12.1	8.8	6.2	7.1	8.0	14.5	.6	16303

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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26.8° 49.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
1<2	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
2<5	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
5<10	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
10+	PCP	0	0	0	0	0	0	0	0	0	0	0	0
	NO PCP	0	0	0	0	0	0	0	0	0	0	0	0
	TOT %	0	0	0	0	0	0	0	0	0	0	0	0
TOT OBS		12.1	26.6	14.9	13.9	14.7	10.2	3.0	3.6	0	1.4	100.0	20631
TOT PCT		12.1	26.6	14.9	13.9	14.7	10.2	3.0	3.6	0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
1/2<1	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
1<2	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
2<5	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
5<10	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
10+	0-3	0	0	0	0	0	0	0	0	0	0	0	0
	4-10	0	0	0	0	0	0	0	0	0	0	0	0
	11-21	0	0	0	0	0	0	0	0	0	0	0	0
TOT OBS		12.1	26.6	14.9	13.9	14.7	10.2	3.0	3.6	0	1.4	100.0	43129
TOT PCT		12.1	26.6	14.9	13.9	14.7	10.2	3.0	3.6	0	1.4	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

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26.6S 45.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 249	300 349	600 699	1000 1099	2000 2499	3500 3999	5000 5499	6500 6999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	1.2	.2	1.3	6.7	11.1	6.0	3.9	1.2	.3	.6	32.9	67.1	3867
0600	.9	.1	1.3	6.6	12.7	6.6	4.3	1.1	.3	.3	35.0	65.0	3378
1200	.6	.3	1.3	7.1	11.9	8.4	4.7	1.4	.4	.5	36.9	63.1	4288
1800	.6	.2	1.3	6.4	11.2	6.9	4.6	1.6	.3	.3	33.7	66.3	4309
TOT PCT	.8	.2	1.3	6.7	11.7	7.0	4.4	1.3	.3	.3	34.6	65.4	16042 100.0

TABLE 11

PERCENT FREQUENCY (SBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.3	.2	.7	3.6	21.3	73.8	12492
0600	.4	.2	.8	4.0	21.1	73.5	6702
1200	.3	.1	.9	3.6	19.8	79.3	13234
1800	.3	.2	.9	3.3	17.9	77.5	9213
TOT PCT	.3	.2	.8	3.6	20.1	78.0	43641 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
0000	1.2	3.1	12.1	22.8	69.1	3694
0600	.9	2.7	12.3	25.0	62.7	3434
1200	.7	2.6	12.4	26.2	61.4	4146
1800	.6	2.3	11.1	24.2	64.7	4173
TOT PCT	.8	2.7	12.0	24.6	63.9	13447 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
59/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61/61	.0	.0	.0	.0	.2	.2	.1	.0	.5	.0
62/62	.0	.0	.0	.1	.6	1.9	3.5	.6	3.7	.0
70/70	.0	.0	.1	.8	2.5	7.0	10.4	5.3	27.1	.0
75/75	.0	.0	.1	1.1	4.9	6.6	12.2	9.8	35.7	.0
80/80	.0	.0	.1	1.4	3.6	3.0	7.0	3.6	22.9	.0
85/85	.0	.0	.1	1.4	1.6	1.6	1.7	1.4	6.8	.0
90/90	.0	.0	.0	.1	.2	.3	.3	.2	1.1	.0
95/95	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
TOTAL PCT	.0	.0	.3	4.0	13.8	23.5	34.2	22.0	13956 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
59/59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61/61	.1	.3	.1	.0	.1	.0	.0	.0	.0	.0
62/62	1.1	2.3	.6	.9	.4	.2	.1	.3	.0	.2
70/70	3.0	7.9	4.4	4.1	3.3	1.9	.6	1.1	.0	.4
75/75	4.2	10.8	3.8	3.2	4.4	2.8	1.0	1.2	.0	.4
80/80	2.2	4.8	3.3	3.6	4.1	3.1	.7	.8	.0	.3
85/85	.8	.3	.4	.9	1.9	1.8	.4	.2	.0	.1
90/90	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0
95/95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	11.6	26.6	14.6	14.2	14.6	10.4	3.0	3.6	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	90	76	74	71	65	63	48	71.1	23423
0600	86	77	76	71	65	61	47	70.3	14234
1200	93	81	79	75	66	62	48	72.3	24503
1800	93	83	80	75	67	63	31	73.1	14117
TOT	93	81	78	72	64	62	47	71.8	76277

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.8	11.7	22.5	36.2	26.7	82	4293		
0600	.0	2.8	11.5	21.3	33.0	29.5	82	3469		
1200	.0	3.4	13.0	26.4	34.1	19.2	79	4442		
1800	.0	7.2	17.0	30.9	30.9	13.9	77	3916		
TOT	0	747	2266	4136	5562	3586	60	16319		

ANNUAL

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1934-1973AREA 0010 FLORIANUPOLIS
24.63 45.74

TABLE 17

PCT PRES OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.0
16/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.1
15/17	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	61	.0	.3
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	88	.0	.5
13/15	.0	.0	.0	.0	.1	.2	.3	.2	.2	.2	.0	.0	228	.0	1.2
12/14	.0	.0	.0	.1	.1	.1	.2	.2	.2	.1	.0	.0	182	.0	1.0
11/13	.0	.0	.0	.1	.2	.4	.5	.6	.5	.4	.0	.0	381	.0	2.1
10/12	.0	.0	.0	.1	.3	.6	.9	.8	.7	.5	.0	.0	581	.1	3.1
9/11	.0	.0	.0	.1	.5	.9	1.2	1.0	.9	.7	.0	.0	739	.1	4.0
8/10	.0	.0	.0	.3	.9	2.1	2.2	1.8	.7	.5	.0	.0	1452	.1	7.8
7/9	.0	.0	.0	.3	1.1	2.8	3.0	2.4	.5	.3	.0	.0	1879	.1	10.1
6/8	.0	.0	.0	.7	2.0	5.0	4.9	3.9	.4	.2	.0	.0	3127	.3	18.7
5/7	.0	.0	.1	.4	3.0	4.2	4.3	2.8	.2	.0	.0	.0	2381	.3	13.6
4/6	.0	.0	.1	.6	2.2	3.6	3.6	1.5	.1	.0	.0	.0	2179	.1	11.7
3/5	.0	.0	.1	.6	2.3	2.5	2.4	1.7	.0	.0	.0	.0	1589	.1	8.9
2/4	.0	.0	.2	.7	1.9	1.9	.4	.3	.0	.0	.0	.0	1189	.0	6.4
1/3	.0	.0	.1	.6	1.3	1.2	.9	.2	.0	.0	.0	.0	847	.0	4.3
0/2	.0	.0	.2	.6	.8	.6	.2	.0	.0	.0	.0	.0	494	.0	2.6
-1/1	.0	.1	.3	.8	.6	.2	.0	.0	.0	.0	.0	.0	313	.0	2.7
-2/0	.0	.2	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	171	.0	.9
-3/-1	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	101	.0	.5
-4/-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	.1
-5/-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-6/-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.0
-7/-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18423	.0	.0
TOTAL															
PCT	.0	.3	1.6	6.5	17.3	26.9	26.5	16.7	3.6	.9	.1	.0	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT PRES OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.2	.7	.0	.0	.0	.0	.8	1	.3	1.0	.1	.0	.0	.0	1.4
1-2	.1	3.0	1.1	.0	.0	.0	4.2	2	.2	3.6	2.2	.0	.0	.0	8.0
3-4	.1	1.0	2.3	.1	.0	.0	3.6	3	.0	3.1	3.3	.2	.0	.0	8.7
5-6	.0	.3	1.8	.2	.0	.0	2.2	4	.0	.7	3.8	.5	.0	.0	5.0
7	.0	.1	1.7	.3	.0	.0	1.1	5	.0	.2	1.7	.7	.0	.0	2.7
8-9	.0	.0	.1	.1	.0	.0	.3	6	.0	.0	.5	.1	.0	.0	.7
10-11	.0	.0	.0	.1	.0	.0	.2	7	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	8	.0	.0	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	10	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	11	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	13	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	14	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	15	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	17	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	18	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	19	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.9	6.3	.8	.0	.0	12.4	20	.0	10.3	14.0	2.0	.0	.0	27.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
1	.2	.7	.0	.0	.0	.0	.8	1	.3	.7	.1	.0	.0	.0	1.0
1-2	.2	4.2	.9	.0	.0	.0	5.3	2	.2	3.2	.8	.0	.0	.0	4.2
3-4	.0	1.9	2.7	.1	.0	.0	4.7	3	.0	1.9	2.1	.1	.0	.0	4.1
5-6	.0	.3	1.7	.2	.0	.0	2.3	4	.0	.4	1.6	.1	.0	.0	2.1
7	.0	.1	.6	.3	.0	.0	1.0	5	.0	.1	.3	.3	.0	.0	1.0
8-9	.0	.0	.1	.1	.0	.0	.3	6	.0	.0	.1	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.1	7	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	10	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	11	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	13	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	14	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	15	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	16	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	17	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	18	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	19	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.4	6.1	.8	.0	.0	14.7	20	.3	6.3	9.2	.9	.0	.0	12.9

PERIOD: (OVER-ALL) 1963-1973

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26.63 45.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.7	.1	.0	.0	.0	1.0	.1	.5	.0	.0	.0	.0	.6
1-2	.2	2.9	.7	.0	.0	.0	4.0	.1	1.8	.4	.0	.0	.0	2.5
3-4	.0	1.7	2.7	.2	.0	.0	4.6	.0	.9	1.6	.2	.0	.0	2.7
5-6	.0	.4	2.4	.4	.0	.0	3.3	.0	.3	1.4	.2	.0	.0	1.9
7	.0	.0	.9	.4	.0	.0	1.3	.0	.0	.5	.3	.1	.0	.8
8-9	.0	.0	.3	.2	.0	.0	.7	.0	.0	.2	.2	.0	.0	.3
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	7.4	1.8	.1	.0	15.4	.2	3.4	4.3	1.2	.2	.0	9.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.1	.1	.0	.0	.0	.0	.2	.1	.3	.0	.0	.0	.0	.4	
1-2	.1	.7	.3	.0	.0	.0	1.0	.0	1.0	.2	.0	.0	.0	1.3	
3-4	.0	.3	.3	.0	.0	.0	.7	.0	.5	.3	.0	.0	.0	.8	
5-6	.0	.1	.2	.0	.0	.0	.4	.0	.1	.3	.1	.0	.0	.4	
7	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.2	1.0	.2	.1	.0	2.7	.2	1.9	1.1	.1	.0	.0	2.3	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	4.1	4.6	.4	.0	.0	.0	9.1	
1-2	1.4	22.3	6.9	.0	.0	.0	30.6	
3-4	.2	11.3	17.4	.0	.0	.0	29.0	
5-6	.1	2.6	19.0	1.4	.0	.0	17.3	
7	.1	.6	5.1	2.2	.1	.0	8.2	
8-9	.0	.1	1.4	1.0	.1	.0	2.6	
10-11	.0	.0	.4	1.0	.1	.0	1.3	
12	.0	.0	.1	.5	.0	.0	.3	
13-16	.0	.0	.1	.5	.1	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	41.5	44.7	7.9	.9	.0	100.0	6183

PERIOD: (OVER-ALL) 1963-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
40	2.4	10.6	13.2	6.3	2.2	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4376	3
6-7	.1	1.7	8.9	10.8	5.7	2.3	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3967	5
8-9	.0	.4	2.0	3.7	4.3	2.1	1.2	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1876	7
10-11	.0	.4	.5	.7	1.0	.7	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	571	7
12-13	.0	.0	.4	.2	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	8
13	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	10
INDEF	2.1	2.0	2.9	1.9	1.3	.8	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1490	4
TOTAL																				12787	5
PCT	4.6	19.1	27.9	23.7	14.8	6.9	3.0	1.3	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1854-1973

TABLE 20

AREA 0010 FLORIANOPOLIS
28.6S 43.7W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH													
SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/86	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
83/84	.4	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.1	.2
81/82	1.4	0.1	0.3	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.7
79/80	14.3	28.3	23.6	8.7	1.0	.2	.0	.1	.1	.1	.2	2.6	6.7
77/78	32.3	36.3	33.4	26.2	6.1	1.3	.2	.2	.4	.4	1.6	10.8	12.3
75/76	30.9	17.8	20.3	29.8	19.2	6.3	1.3	.5	1.4	1.4	8.8	27.6	10.9
73/74	13.8	5.6	6.9	20.8	30.4	20.4	10.3	4.1	4.8	5.9	29.3	33.0	11.6
71/72	3.2	1.1	1.6	6.4	20.3	24.0	19.2	17.8	18.6	28.2	32.3	16.1	11.2
69/70	.0	.4	.4	2.7	12.3	17.3	21.0	23.3	23.1	28.3	20.9	9.2	9.2
67/68	.4	.2	.3	.7	6.3	13.1	16.3	18.8	21.7	21.3	9.6	1.7	9.2
65/66	.1	.1	.1	.4	2.2	7.3	11.6	12.8	13.7	10.6	2.2	.3	3.2
63/64	.0	.0	.0	.1	1.2	5.7	10.4	10.3	9.6	4.8	.7	.1	3.6
61/62	.0	.0	.1	.0	.2	2.2	9.0	9.7	3.9	1.4	.2	.0	1.3
59/60	.0	.0	.0	.0	.1	1.0	2.8	3.0	1.3	.3	.0	.0	.7
57/58	.0	.0	.0	.0	.0	.4	1.0	1.1	.3	.1	.0	.0	.3
55/56	.0	.0	.0	.0	.0	.0	.4	.2	.3	.0	.0	.0	.1
53/54	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0
51/52	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
49/50	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	8962	3882	6374	6482	6379	6662	6224	6250	5923	6169	6067	5761	74339
MEAN	76.4	77.7	77.4	75.4	72.9	70.0	68.1	67.7	68.0	69.1	71.3	74.0	72.3

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1011	1011	1012	1012	1011	1011	1012	3174
FEB	1012	1013	1011	1011	1013	1013	1012	1010	1012	3148
MAR	1014	1014	1013	1017	1014	1014	1013	1013	1014	3214
APR	1017	1017	1013	1015	1017	1017	1016	1015	1016	3671
MAY	1018	1018	1017	1017	1018	1018	1017	1016	1018	3563
JUN	1019	1019	1019	1017	1020	1019	1018	1016	1019	3343
JUL	1021	1021	1020	1018	1021	1021	1020	1018	1021	3346
AUG	1020	1020	1019	1017	1020	1020	1019	1017	1019	3291
SEP	1018	1018	1017	1017	1019	1019	1017	1017	1018	3033
OCT	1016	1017	1013	1014	1017	1017	1016	1014	1016	3176
NOV	1014	1014	1013	1013	1015	1015	1013	1013	1014	3275
DEC	1012	1013	1012	1011	1013	1013	1012	1013	1012	2841
ANN	1016	1016	1013	1014	1017	1017	1015	1014	1016	30121
OBS	7679	3413	7363	534	7968	4324	7673	361		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	1001	1003	1009	1012	1014	1017	1020	1024
FEB	996	1002	1006	1010	1012	1013	1018	1020	1023
MAR	998	1003	1007	1011	1014	1016	1020	1022	1023
APR	1000	1003	1009	1014	1016	1019	1022	1023	1024
MAY	998	1004	1010	1013	1018	1021	1023	1027	1032
JUN	996	1006	1010	1016	1019	1027	1027	1030	1034
JUL	991	1006	1012	1017	1021	1024	1028	1031	1036
AUG	1001	1006	1010	1016	1020	1023	1028	1031	1036
SEP	998	1003	1009	1014	1018	1022	1026	1030	1034
OCT	997	1003	1007	1013	1016	1020	1024	1027	1033
NOV	996	1003	1006	1011	1014	1017	1021	1024	1033
DEC	993	999	1004	1009	1013	1016	1020	1022	1029

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1957-1976

JANUARY

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	.3	1.0	.0	.0	.0	.0	4.6	2.9	2.1	.0	.0	.8	.0	88.6
NE	1.9	2.2	.0	.0	.0	.0	.0	4.1	1.2	2.2	.4	.0	.8	.0	91.7
E	1.2	.4	1.0	.0	.0	.0	.0	2.3	1.4	.6	.4	.0	.0	.0	95.3
SE	1.3	2.2	1.3	.0	.0	.0	.0	3.1	1.8	.4	.0	.0	.1	.0	92.3
S	1.1	2.6	2.3	.0	.0	.0	.0	6.0	2.0	.3	.0	.0	.3	.0	91.2
SW	3.3	.6	1.8	.0	.0	.0	.0	3.0	1.3	1.2	.6	.0	.6	.0	91.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.2	1.8	.0	.0	.0	93.2
NW	1.3	1.3	.0	.0	.0	.0	.0	2.7	4.3	3.0	.0	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	3.6	.0	.0	.0	.0	.0	7.1	3.6	3.6	.0	.0	3.6	.0	82.1
TOT PCT	1.8	1.6	.9	.0	.0	.0	.0	4.2	1.8	1.7	.3	.0	.3	.0	91.6
TOT OBS:	1792														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG CLWG	DUST	NO SIG WEA
0600	3.2	2.3	.6	.0	.0	.0	.0	6.0	1.3	3.3	.2	.0	.4	.0		88.1
0609	1.3	2.0	1.3	.0	.0	.0	.0	4.8	1.8	2.4	.2	.0	.0	.0		91.0
1809	1.3	1.3	1.0	.0	.0	.0	.0	3.8	2.3	.0	.0	.0	1.0	.0		92.1
1821	1.2	.7	.7	.0	.0	.0	.0	2.6	1.2	.2	.0	.0	.3	.0		93.8
TOT PCT TOT OBS:	1.8 1693	1.6	.9	.0	.0	.0	.0	4.3	1.7	1.6	.3	.0	.3	.0		91.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.4	9.2	1.0	.1	.0		11.2	12.2		9.4	10.8	12.0	7.2	13.6	12.3	9.3	10.4
NE	1.0	10.2	11.2	2.2	.1	.0		29.7	12.9		20.7	29.1	32.0	30.0	29.0	27.4	28.6	23.0
E	.9	7.4	7.3	.9	.0	.0		16.3	11.3		19.7	19.8	14.3	19.4	13.9	15.0	16.9	17.4
SE	1.0	4.6	6.0	.9	.1	.0		14.4	11.4		14.9	15.4	12.0	18.9	13.9	14.1	13.3	13.9
S	.7	6.6	4.6	.9	.0	.0		10.8	11.9		11.9	11.8	10.3	8.9	10.1	9.0	11.7	6.3
SW	.3	2.8	3.2	1.2	.0	.0		7.7	13.2		4.6	3.6	7.9	6.7	7.3	8.6	9.3	22.9
W	.3	1.3	1.3	.4	.1	.0		3.2	12.7		2.1	2.3	3.4	6.1	3.7	4.4	3.2	4.2
NW	.4	2.1	1.4	.3	.0	.0		4.2	10.6		3.0	3.4	4.2	.6	3.4	3.8	3.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.7	1.9	2.8	2.2	2.4	2.7	1.7	.0
TOT OBS	309	2641	3046	321	22	1	6734		11.9		1224	827	1244	43	1199	979	1180	36
TOT PCT	7.8	39.2	43.2	7.7	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 09	06 09	12 15	18 21
N	2.0	3.7	2.7	.2	6		11.2	12.2	10.0	11.8	13.1	9.3
NE	4.3	10.3	9.2	.4	6		29.7	12.9	30.1	31.9	28.6	23.0
E	3.7	9.2	3.3	.1	6		16.3	11.3	19.7	14.7	16.4	16.9
SE	3.3	7.9	2.7	.3	.0		14.4	11.4	13.1	13.0	14.0	13.3
S	2.4	3.8	2.3	.3	.0		10.8	11.9	11.7	10.3	9.8	11.3
SW	1.0	3.6	2.1	.4	.0		7.7	13.2	6.2	7.9	7.9	9.9
W	.8	1.3	.8	.2	.0		3.2	12.7	2.3	3.3	4.0	3.2
NW	1.3	2.1	.7	.1	.0		4.2	10.6	3.1	4.1	3.7	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.8	2.8	2.3	1.6
TOT OBS	1914	3326	1949	139	6	6734		11.9	2031	1289	2178	1216
TOT PCT	28.3	52.4	28.0	2.1	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1857-1976

JANUARY

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.8	4.4	39.6	43.5	8.4	.1	0	12.0	100.0	2031
0600Z	2.8	6.1	39.9	43.9	6.9	.4	.0	11.6	100.0	1289
1200Z	2.5	5.8	38.3	45.1	7.7	.5	.0	11.9	100.0	2179
1800Z	1.6	4.9	39.3	46.3	7.3	.2	.0	12.0	100.0	1216
TOT	148	383	2641	3040	321	22	1	11.9		6734
PCT	2.2	5.3	39.2	45.2	7.7	.3	0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.6	1.8	2.4	1.8		3.5
NE	12.1	7.0	7.8	3.4		3.6
E	3.0	3.7	3.1	1.6		3.8
SE	3.6	3.7	3.8	1.3		4.1
S	4.2	3.2	4.1	1.9		4.1
SW	3.1	2.4	3.1	1.4		4.0
W	1.3	.8	.7	.4		3.3
NW	2.0	.6	1.2	.5		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.4	.2		2.6
TOT OBS	488	301	348	161	1308	3.7
TOT PCT	36.1	23.0	26.6	12.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/M) >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.1	.0	.0	.7	.5	.4	.4	.2	.1	.1	9.1	
.2	.0	.3	1.2	1.9	1.5	.7	.8	.0	.3	25.4	
.1	.1	.1	.1	.6	1.1	.4	.2	.1	.0	10.8	
.0	.0	.1	.6	.8	1.1	.6	.5	.0	.0	6.7	
.2	.0	.1	1.1	1.8	.3	.6	.1	.1	.0	9.2	
.0	.1	.0	.7	1.3	.2	.9	.1	.0	.0	6.8	
.0	.0	.1	.2	.2	.2	.1	.0	.1	.0	2.4	
.0	.0	.0	.1	.1	.2	.3	.0	.0	.0	3.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.1	.0	.2	.0	.0	.1	.0	.0	1.5	
.6	.2	.9	.82	.97	.63	.48	.23	.4	.3	985	1308
.5	.2	.7	4.7	7.4	5.0	3.7	1.9	.8	.4	75.3	100.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1 1/2	>1
>4000	.3	.7	.7	.7	.7	.7	.7	.7
>3000	1.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>2000	4.7	6.3	6.4	6.4	6.3	6.3	6.3	6.3
>1000	8.3	10.8	11.2	11.2	11.3	11.3	11.3	11.3
>600	13.9	17.8	18.6	18.6	18.7	18.7	18.7	18.7
>400	17.1	22.3	23.3	23.3	23.3	23.4	23.4	23.4
>300	17.7	22.9	23.0	23.9	24.0	24.1	24.1	24.1
>200	17.9	23.0	24.1	24.1	24.2	24.2	24.2	24.2
>100	17.8	23.2	24.3	24.3	24.6	24.7	24.7	24.7
TOTAL	236	308	326	326	327	328	328	328

TOTAL NUMBER OF OBS: 1329

PCT FREQ NM <5/8: 75.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.0	16.2	10.9	13.2	8.4	5.9	5.4	5.4	7.9	.2	1433

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1957-1976

JANUARY

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 6

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	PCP	.1	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	
	NO PCP	.2	.6	.2	.1	.3	.1	.0	.1	.0	.1	1.9	
	TOT S	.3	.9	.3	.1	.4	.3	.0	.1	.0	.1	2.9	
5<10	PCP	.3	.6	.1	.4	.4	.3	.0	.1	.0	.1	2.2	
	NO PCP	1.9	6.0	2.3	2.0	1.3	1.3	.8	.7	.0	.1	16.3	
	TOT S	2.2	6.6	2.6	2.4	1.9	1.6	.8	.8	.0	.1	18.7	
10+	PCP	.1	.4	.1	.2	.3	.1	.0	.0	.0	.0	1.2	
	NO PCP	7.9	29.2	11.4	10.8	9.6	7.9	2.6	3.3	.0	1.3	77.9	
	TOT S	8.0	29.6	11.9	10.7	10.1	7.6	2.6	3.3	.0	1.3	78.7	
TOT OBS													1789
TOT PCT		10.6	31.0	14.3	13.3	12.3	9.4	3.1	4.2	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.3	.3	.0	.1	.0	.0	.1	.0	.0	1.0	
	11-21	.2	.3	.1	.0	.1	.1	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT S	.3	.7	.4	.1	.3	.2	.0	.1	.0	.1	2.1	
5<10	0-3	.0	.2	.1	.1	.1	.1	.0	.0	.0	.2	.8	
	4-10	.7	1.9	.7	.0	.8	.4	.2	.3	.0	.0	3.3	
	11-21	1.0	2.6	1.1	1.0	.6	.4	.1	.3	.0	.0	7.1	
	22+	.1	.7	.3	.2	.2	.2	.1	.0	.0	.0	2.0	
	TOT S	1.8	5.3	2.2	1.9	1.7	1.2	.4	.7	.0	.2	13.2	
10+	0-3	.5	.8	.6	.7	.5	.3	.2	.4	.0	1.5	3.3	
	4-10	3.3	8.2	6.7	5.1	3.8	2.7	1.0	2.0	.0	.0	22.9	
	11-21	4.2	14.3	8.4	5.6	4.9	2.9	1.1	.9	.0	.0	38.7	
	22+	.6	1.6	.4	.3	.7	1.0	.3	.1	.0	.0	3.1	
	TOT S	8.6	24.8	13.1	11.2	9.8	7.0	2.6	3.4	.0	1.5	52.2	
TOT OBS													3613
TOT PCT		11.0	30.9	15.8	13.3	11.5	8.4	2.9	4.2	.0	1.8	100.0	

JANUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1857-1976AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.3	.0	1.1	4.2	10.1	4.8	4.2	1.7	.0	.3	26.7	75.3	356
0600	.3	.0	.3	4.3	6.8	3.4	2.0	1.7	.3	.6	19.9	80.1	352
1200	.6	.6	.9	4.1	5.8	3.2	4.9	2.3	.3	.3	24.9	75.1	345
1800	.6	.0	.3	4.8	5.4	3.1	3.4	1.7	.6	.3	22.0	78.0	354
TOT	6	2	9	62	99	65	31	26	4	5	329	1078	1407
PCT	.4	.1	.6	4.4	7.0	4.0	3.6	1.6	.3	.4	23.4	76.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.1	.0	.5	1.8	17.2	80.3	1000
0600	.1	.1	.1	3.3	15.2	81.0	781
1200	.1	.1	.3	1.9	15.3	82.3	1064
1800	.0	.3	.1	1.3	12.3	85.7	780
TOT	3	4	10	75	558	3005	3655
PCT	.1	.1	.3	2.1	15.3	82.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	.3	1.8	7.8	21.3	70.9	333
0600	.3	.6	7.2	14.7	78.1	333
1200	.6	2.2	7.2	19.9	72.9	321
1800	.6	1.2	7.3	19.3	77.2	342
TOT	6	19	98	237	994	1329
PCT	.3	1.4	7.4	17.8	74.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
85/89	.0	.0	.1	.2	.0	.1	.0	.0	3	.4
80/84	.0	.0	.0	.3	.7	2.3	.7	.0	3	.4
75/79	.0	.0	.1	1.0	3.7	10.1	15.3	6.8	336	39.3
70/74	.0	.0	.1	3.0	7.0	12.9	12.7	11.9	630	47.6
65/69	.0	.0	.2	.4	1.7	1.9	1.0	.8	82	6.0
60/64	.0	.0	.0	.1	.0	.1	.0	.0	4	.3
TOTAL	0	0	7	70	179	379	428	304	1363	100.0
PCT	.0	.0	.5	5.1	13.1	27.6	31.4	22.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.1	.1	.0	.1	.0	.1	.0	.0	.0	.0
1.0	2.7	.3	.4	.2	.3	.3	.4	.0	.1
3.8	14.4	3.3	3.2	4.1	3.1	1.1	1.3	.0	.3
3.7	12.9	8.6	7.3	6.7	4.8	1.2	1.8	.0	.7
.2	.4	.3	.8	2.3	1.4	.2	.4	.0	.0
.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
10.8	30.3	14.6	11.8	13.3	9.9	3.1	4.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	88	81	78	73	68	63	34	73.4	2045
0600	82	79	77	73	67	63	33	72.4	1289
1200	91	85	81	79	69	66	62	76.9	2129
1800	90	83	82	76	70	66	65	76.0	1172
TOT	91	83	80	74	68	63	33	74.1	6695

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.7	10.3	26.0	32.3	27.6	81		381	
0600	.0	3.3	10.8	23.4	32.2	27.1	81		343	
1200	.0	6.1	14.0	27.6	31.2	20.1	79		359	
1800	.0	9.7	13.4	31.3	31.0	12.3	77		319	
TOT	0	74	180	383	448	310	80		1402	

JANUARY

PERIOD: (PRIMARY: 1914-1976
(OVER-ALL) 1957-1976

AREA 0011 PORTO ALEGRE
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
17/.9	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
14/1.1	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
11/1.1	.0	.0	.0	.1	.0	.3	.0	.1	7	.0	.4
9/1.1	.0	.0	.0	.1	.2	.3	.2	.0	13	.0	.8
7/8	.0	.0	.0	.1	.6	.6	.1	.0	24	.0	1.4
6	.0	.0	.0	.2	.5	.4	.0	.0	19	.0	1.1
5	.0	.0	.2	.7	1.0	.3	.1	.0	37	.0	2.2
4	.0	.1	.5	1.0	2.1	.7	.0	.0	74	.0	4.4
3	.0	.0	.2	1.5	2.3	.4	.0	.0	73	.0	4.3
2	.0	.2	.9	3.3	3.3	.3	.0	.0	168	.1	10.0
1	.1	.1	1.9	6.1	3.3	.1	.0	.0	196	.0	11.7
0	.0	.2	3.2	8.8	3.8	.2	.0	.0	271	.1	16.1
-1	.0	.2	3.6	7.7	2.0	.1	.0	.0	227	.0	13.6
-2	.0	.2	4.3	7.1	.5	.0	.0	.0	203	.0	12.1
-3	.1	.5	3.6	4.2	.7	.0	.0	.0	143	.0	8.6
-4	0	.7	2.8	1.7	.1	.0	.0	.0	88	.0	5.3
-5	.1	.8	2.2	.7	.0	.0	.0	.0	84	.0	3.8
-6	.0	.4	1.1	.5	.0	.0	.0	.0	34	.0	2.0
-7/-8	.0	.2	.4	.2	.0	.0	.0	.0	13	.0	.9
-9/-10	.0	.4	.1	.1	.0	.0	.0	.0	8	.0	.3
-11/-13	.1	.2	.0	.0	.0	.0	.0	.0	4	.0	.2
TOTAL	6	70	419	769	338	8	1	1672	1672	.2	100.0
PCT	.4	4.2	25.1	46.0	20.2	3.8	.4	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.1
1-2	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	9.6
3-4	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	8.4
5-6	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	3.3
7	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	3.8
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	8.8	.3	.0	.0	12.9	.6	10.8	16.0	2.4	.0	.0	30.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1
1-2	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	3.6
5-6	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	2.2
7	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	4.7	.2	.0	.0	10.9	1.1	4.5	6.6	.8	.0	.0	13.0

PERIOD: (OVER-ALL) 1963-1976

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AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 18 (CON")

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.3	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	1.7	.0	.0	.0	4.1	.2	2.3	.2	.0	.0	.0	2.7
3-4	.0	.3	3.5	.4	.0	.0	4.2	.0	1.1	1.4	.6	.0	.0	3.1
5-6	.0	.8	1.9	.2	.1	.0	3.0	.0	.2	2.6	.4	.0	.0	3.3
7	.0	.3	.8	.4	.0	.0	1.6	.0	.0	.2	.2	.0	.0	.5
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.2	.6	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	8.3	1.4	.1	.0	14.5	.2	3.7	4.8	1.8	.0	.0	10.6

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2	.0
1-2	.0	1.1	.3	.0	.0	.0	1.6	.0	.2	.3	.0	.0	.0	1.0	.0
3-4	.0	.4	.2	.0	.0	.0	.6	.0	.3	.2	.0	.0	.0	.5	.0
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	.0
7	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.8	.9	.1	.0	.0	3.0	.8	.8	1.0	.7	.0	.0	2.6	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	0.8	2.3	.0	.0	.0	.0	9.3	089
1-2	1.7	21.1	8.7	.0	.0	.0	31.6	
3-4	.0	7.9	18.2	1.7	.0	.0	27.9	
5-6	.0	1.4	14.7	1.6	.2	.0	17.5	
7	.2	.8	6.4	1.4	.0	.0	8.7	
8-9	.0	.8	1.2	1.7	.0	.0	3.9	
10-11	.0	.0	.4	.2	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.7	34.3	49.6	7.2	.2	.0	100.0	316

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.9	13.9	7.6	1.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	392	3
6-7	.1	1.8	9.2	10.7	6.6	1.3	.3	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	346	3
8-9	.0	.2	2.0	3.2	3.0	2.2	.6	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	184	6
10-11	.0	.6	.6	.8	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	.4	.2	.1	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
>13	.0	.0	.0	.0	.2	.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
IMDET	2.4	3.6	4.2	3.1	1.0	1.0	.2	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	173	4
TOTAL	43	180	341	287	169	64	21	9	7	0	3	1	0	0	0	0	0	0	0	1129	4
PCT	3.8	16.0	30.3	25.3	15.0	5.7	1.9	.8	.6	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

APEA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	FRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN P-1 HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	.7	1.4	.0	.0	.0	.0	3.0	.8	3.1	.0	.0	.8	.0	88.3
NE	2.6	.8	1.9	.0	.0	.0	.0	3.3	2.1	3.9	1.0	.0	.4	.0	98.2
E	3.6	1.4	1.1	.0	.0	.0	.0	6.3	3.2	1.4	.8	.0	.0	.0	88.7
SE	2.8	2.1	1.3	.0	.0	.0	.0	3.8	2.3	1.3	.1	.0	.4	.0	89.7
S	2.7	2.7	1.1	.0	.0	.0	.0	6.4	.0	1.8	.0	.0	.4	.0	91.7
SW	3.4	3.6	2.8	.0	.0	.0	.0	9.7	3.2	1.3	.0	.0	.2	.0	83.3
W	4.1	.0	1.3	.0	.0	.0	.0	3.6	3.4	1.3	1.3	.0	1.1	.0	88.4
NW	3.3	.0	.9	.0	.0	.0	.0	6.1	.9	.9	.0	.0	1.8	.0	90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	12.0	.0	.0	16.0	.0	88.0
TOT PCT TOT OBS: 1989	3.0	1.4	1.6	.0	.0	.0	.0	6.0	2.0	2.8	.3	.0	.6	.0	88.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGS WD PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	4.0	1.7	.0	.0	.0	.0	.0	6.3	1.9	4.8	.6	.0	.6	.0	86.6
0809	3.3	1.8	2.2	.0	.0	.0	.0	8.9	2.9	6.0	.7	.0	.4	.0	83.8
12019	2.3	.9	1.7	.0	.0	.0	.0	4.9	2.4	.4	.4	.0	.9	.0	91.0
18021	2.4	1.6	1.6	.0	.0	.0	.0	3.6	1.1	.2	.2	.0	.4	.0	92.7
TOT PCT TOT OBS:	3.0 1910	1.4	1.3	.0	.0	.0	.0	3.9	2.1	2.8	.3	.0	.6	.0	88.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQG	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	.0	4.7	1.5	.0	.0		11.1	12.8	8.3	10.1	13.3	10.6	13.9	11.9	8.8	10.8	
NE	1.0	10.7	14.4	2.7	.0	.0		28.8	12.8	27.4	31.3	30.9	29.8	28.3	26.1	28.4	25.3	
E	.8	8.3	7.4	.9	.1	.0		17.6	11.2	20.9	19.3	15.9	21.8	16.0	16.0	17.3	16.7	
SE	.8	7.2	5.0	1.0	.0	.0		14.9	11.2	17.8	16.3	13.6	3.9	12.7	14.9	14.8	9.8	
S	.8	4.7	3.9	.9	.1	.0		10.4	11.7	11.8	8.8	9.0	13.3	9.8	10.2	12.0	14.7	
SW	.6	3.4	3.2	1.0	.1	.0		8.3	12.9	7.6	6.3	7.2	17.6	8.6	8.8	10.4	9.8	
W	.3	1.3	1.2	.4	.0	.0		3.4	12.3	2.4	2.8	2.9	.0	4.4	4.2	4.0	2.9	
NW	.3	1.8	1.2	.2	.0	.0		3.3	10.9	1.9	2.3	4.3	1.1	4.7	3.2	2.8	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8							2.0	.0	1.8	2.6	2.8	.0	1.3	2.3	1.2	.0	
TOT OBS	490	2847	2841	378	28	3	6789		11.8	1194	844	1241	47	1216	984	1212	51	
TOT PCT	7.2	41.9	41.8	6.3	.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQG	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	5.3	2.3	.3	.0	11.1	12.8	9.0	13.4	13.0	8.9	
NE	4.6	13.8	7.8	.3	.0	28.8	12.8	29.0	30.8	27.4	28.8	
E	4.0	10.4	3.0	.3	.0	17.6	11.2	20.3	16.1	16.0	17.3	
SE	3.4	8.6	2.3	.2	.0	14.9	11.2	17.2	13.4	13.7	14.6	
S	2.3	3.6	2.0	.2	.0	10.4	11.7	10.3	9.2	10.0	12.1	
SW	1.7	4.2	2.0	.4	.1	8.3	12.9	7.1	7.6	8.7	10.4	
W	.9	1.7	.4	.2	.0	3.4	12.3	2.6	2.8	4.3	3.9	
NW	1.1	1.7	.6	.1	.0	3.3	10.9	2.1	4.2	4.9	2.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0					2.0	.0	2.2	2.7	2.0	1.2	
TOT OBS	1927	3628	1477	148	9	6789	11.8	2038	1288	2200	1263	
TOT PCT	22.3	53.4	21.8	2.2	.1		100.0	100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GRT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.2	4.6	41.7	42.7	8.3	.4	.1	11.9	100.0	2038	
06009	2.7	5.4	43.1	39.9	8.3	.3	.1	11.7	100.0	1288	
17615	2.0	5.8	42.0	40.4	9.4	.4	.1	11.8	100.0	2300	
18621	1.2	4.9	41.0	45.0	7.6	.3	.0	11.9	100.0	1263	
TOT	137	333	2847	2641	578	28	5	11.8		6789	
PCT	2.0	5.2	41.9	41.8	8.5	.4	.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
M	4.2	1.9	3.4	1.8		4.0
NE	10.6	5.9	10.1	4.2		4.1
E	3.5	3.3	5.1	2.7		4.2
SE	3.5	3.3	3.9	1.6		4.1
S	3.4	2.5	3.3	1.7		3.6
SW	2.8	1.6	2.3	1.7		4.3
W	1.6	.3	.9	.5		3.5
NW	1.1	.3	.7	.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.1	.1	.1		1.8
TOT OBS	496	270	414	203	1383	4.0
TOT PCT	35.9	19.5	29.9	14.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.0	.1	.1	.6	1.1	.6	.4	.1	.1	.3	7.9	
.1	.3	1.5	3.0	1.6	1.5	.5	.3	.1	.1	22.1	
.0	.0	.4	.7	2.0	1.0	.7	.3	.1	.1	11.4	
.2	.0	.8	.9	.6	1.1	1.0	.0	.0	.1	8.7	
.1	.0	.0	.5	1.2	.8	.5	.1	.0	.0	9.8	
.2	.0	.9	1.6	.3	.5	.5	.0	.0	.1	5.4	
.1	.0	.1	.3	.4	.2	.1	.0	.0	.0	2.2	
.0	.0	.9	.1	.1	.2	.2	.2	.0	.0	1.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	1.2	
.7	1	17	69	138	84	64	16	6	11	970	1383
.5	.1	1.2	5.0	10.0	6.1	4.6	1.2	.4	.8	70.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >8300	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2
>OR >5000	1.3	2.0	2.4	2.4	2.4	2.4	2.4	2.4
>OR >3500	4.6	6.4	6.9	6.9	6.9	6.9	6.9	6.9
>OR >2000	8.9	12.0	12.7	12.7	12.7	12.7	12.7	12.7
>OR >1000	16.2	21.4	22.4	22.4	22.5	22.5	22.6	22.6
>OR >400	19.0	25.9	27.4	27.4	27.3	27.3	27.6	27.6
>OR >300	19.6	26.9	28.6	28.6	28.6	28.6	28.7	28.7
>OR >150	19.7	27.0	28.6	28.6	28.7	28.7	28.8	28.8
>OR >0	19.9	27.4	29.1	29.1	29.2	29.2	29.3	29.3
TOTAL	278	383	408	408	409	409	410	410

TOTAL NUMBER OF OBS: 1400

PCT FREQ NM <5/8: 70.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
14.4	16.5	17.2	13.6	8.3	7.2	6.7	6.6	8.9	.3	1407

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

FEBRUARY

AREA 0011 PORTO ALEGRE
30.03 49.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2		
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2		
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.3		
	TOT %	.1	.1	.0	.1	.0	.0	.0	.0	.0	.2	.4		
2<5	PCP	.1	.4	.3	.1	.0	.1	.1	.0	.0	.0	1.2		
	NO PCP	.2	.3	.4	.4	.1	.1	.1	.0	.0	.0	1.8		
	TOT %	.3	.7	.7	.5	.1	.2	.1	.1	.0	.0	2.9		
5<10	PCP	.3	.6	.3	.3	.3	.3	.1	.1	.0	.1	2.4		
	NO PCP	2.1	6.3	2.6	1.7	1.9	1.5	.8	1.0	.0	.3	18.1		
	TOT %	2.4	6.9	2.9	2.0	2.4	1.8	1.0	1.0	.0	.4	20.7		
10+	PCP	.1	.6	.3	.2	.3	.4	.0	.1	.0	.0	2.1		
	NO PCP	8.8	22.3	11.7	9.3	9.7	6.3	2.3	1.9	.0	.8	73.6		
	TOT %	8.9	22.9	12.0	9.7	9.9	6.7	2.3	2.0	.0	.8	75.7		
TOT OBS														1868
TOT PCT														11.7 31.2 19.7 12.3 12.3 8.7 9.6 3.1 .0 1.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.2	.1	.0	.1	.0	.1	.0	.0	.9	
	11-21	.1	.3	.2	.2	.1	.1	.1	.0	.0	.0	.9	
	22+	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.3	.6	.4	.4	.1	.2	.1	.1	.0	.0	2.4	
5<10	0-3	.1	.2	.1	.2	.0	.1	.1	.0	.0	.3	1.0	
	4-10	.8	1.6	.8	.6	.7	.4	.3	.4	.0	.0	5.7	
	11-21	.9	2.6	1.3	1.0	.6	.6	.2	.3	.0	.0	7.3	
	22+	.2	.6	.1	.3	.2	.3	.0	.1	.0	.0	1.8	
	TOT %	2.0	5.0	2.3	2.0	1.6	1.4	.6	.8	.0	.3	16.0	
10+	0-3	.6	.7	.6	.3	.3	.4	.1	.1	.0	1.0	4.3	
	4-10	3.6	9.7	7.4	5.6	3.7	2.6	1.1	1.6	.0	.0	28.4	
	11-21	4.2	12.8	5.8	4.0	3.9	3.0	1.2	.9	.0	.0	39.9	
	22+	.9	1.6	.2	.4	.6	.9	.3	.1	.0	.0	5.0	
	TOT %	9.3	24.9	14.1	10.3	8.9	5.9	2.7	2.7	.0	1.0	80.9	
TOT OBS													3758
TOT PCT													11.7 30.7 17.0 12.9 10.6 8.7 3.3 3.6 .0 1.4 100.0

FEBRUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976

AREA 0011 PORTO ALEGRE
30.08 49.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	.3	.3	1.7	5.1	8.7	5.4	4.2	.8	.0	1.7	28.2	71.8	335							
06009	1.1	.0	1.4	5.9	7.3	5.0	4.3	.8	.8	.6	27.3	72.3	337							
12015	.3	.0	.8	4.9	11.3	8.3	3.6	1.0	.8	.3	31.3	68.3	390							
18021	.3	.0	.8	3.2	10.1	3.7	5.0	1.6	.0	.3	23.6	74.4	373							
TOT	7	1	17	70	139	84	66	16	6	11	417	1080	1477							
PCT	.3	.1	1.2	4.7	9.4	5.7	4.3	1.1	.4	.7	28.2	71.8	100.0							

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.2	.2	.3	1.8	17.4	79.9	1089
06009	.4	.0	.3	3.0	16.0	80.3	793
12015	.1	.3	.6	2.8	14.9	81.4	1138
18021	.0	.1	.1	1.3	19.3	82.3	781
TOT	6	6	13	90	607	3077	3801
PCT	.2	.2	.4	2.4	16.0	81.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET/NM >4/8) BY HOUR

HOURL (GMT)	<180 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
00003	.3	2.1	9.0	20.3	70.7	335
06009	1.2	3.0	10.7	18.3	70.8	336
12015	.3	1.3	9.2	23.3	68.3	371
18021	.3	1.1	6.4	21.2	72.3	338
TOT	7	26	123	300	977	1400
PCT	.3	1.9	8.8	21.4	69.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
85/89	.0	.0	.0	.2	.3	.9	.1	.0	13	1.1
80/84	.0	.0	.1	.5	1.3	3.4	3.0	.9	125	8.8
75/79	.0	.0	.2	1.8	3.3	12.3	19.2	10.7	699	49.4
70/74	.0	.0	.2	2.9	9.1	9.8	9.4	6.4	329	27.4
65/69	.0	.0	.0	.4	.8	.6	.8	.4	40	2.8
60/64	.0	.0	.0	.1	.1	.1	.1	.1	5	.4
TOTAL	0	0	7	77	240	374	461	233	1414	100.0
PCT	.0	.0	.5	5.4	17.0	26.4	32.6	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.2	.6	.0	.0	.1	.1	.0	.0	.0	.0
80/84	1.3	3.6	.6	.7	.9	.8	.4	.4	.0	.1
75/79	7.4	18.3	8.0	4.3	4.6	3.0	1.6	1.3	.0	.8
70/74	2.3	7.8	7.3	7.2	6.9	3.4	1.0	.8	.0	.6
65/69	.1	.2	.4	.3	.5	.3	.1	.1	.0	.0
60/64	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0
TOTAL	11.9	30.6	16.4	12.9	13.2	7.9	3.1	2.6	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	81	79	75	69	66	62	74.4	2014
06009	89	79	78	74	69	66	61	73.8	1277
12015	91	89	82	76	70	67	60	75.9	2118
18021	91	86	83	77	71	68	64	77.0	1197
TOT	91	84	81	75	70	66	60	75.2	6606

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.8	14.9	28.3	31.6	21.8	79	377		
06009	.0	2.8	12.8	21.7	23.6	29.2	82	360		
12015	.0	7.0	18.6	28.1	33.7	14.6	78	371		
18021	.0	8.3	20.9	32.2	32.2	6.3	73	339		
TOT	0	89	262	383	474	263	79	1447		

FEBRUARY

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1864-1976AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 60	61 64	63 66	64 68	65 72	66 76	67 80	68 84	69 88	70 92	TOT	N FON	WD FOG
20/22	.0	.0	.0	.0	.1	.0	.3	.0	.0		1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.2	.2		9	.0	.3
9/10	.0	.0	.0	.0	.1	.1	.4	.0	.0		9	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.2	.3	.0		19	.1	1.1
6	.0	.0	.0	.0	.3	.4	.3	.2	.0		19	.0	1.1
5	.0	.0	.0	.1	.2	.6	.9	.2	.0		32	.0	1.9
4	.0	.0	.0	.1	.6	1.4	.7	.0	.0		48	.0	2.8
3	.0	.0	.0	.1	1.0	2.6	.8	.0	.0		90	.1	3.2
2	.0	.0	.1	.3	3.0	4.3	.6	.0	.0		136	.1	9.1
1	.0	.0	.0	.4	4.2	5.3	.5	.0	.0		181	.1	10.6
0	.0	.0	.0	1.3	8.7	9.2	.4	.0	.0		286	.1	16.7
-1	.0	.0	.1	1.1	9.2	4.0	.1	.0	.0		246	.1	14.4
-2	.0	.1	.1	2.3	8.0	1.3	.0	.0	.0		203	.0	11.9
-3	.0	.1	.1	2.1	6.2	.4	.0	.0	.0		131	.0	8.9
-4	.0	.0	.4	2.3	2.4	.3	.0	.0	.0		103	.0	6.0
-5	.0	.0	.3	1.9	2.0	.1	.0	.0	.0		73	.0	4.3
-6	.0	.1	.2	.6	.9	.0	.0	.0	.0		32	.0	1.9
-7/-8	.0	.0	.4	1.1	.1	.1	.0	.0	.0		29	.0	1.7
-9/-10	.0	.2	.4	.1	.1	.0	.0	.0	.0		13	.0	.8
-11/-13	.0	.0	.1	.1	.0	.0	.0	.0	.0		3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0		1	.0	.1
TOTAL	1	7	33	84	181	278	4.9	1.1	.2		1704	.4	99.6
PCT	.1	.4	2.1	14.1	49.4	27.8	4.9	1.1	.2		100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.3	.0	.0	.0	.0	.6	.3	1.0	.0	.0	.0	.0	1.8
1-2	.2	2.1	.0	.0	.0	.0	3.2	.2	3.4	3.0	.0	.0	.0	8.3
3-4	.0	1.1	2.4	.1	.0	.0	3.6	.0	2.2	3.9	.3	.0	.0	8.7
5-6	.0	.3	1.6	.2	.0	.0	2.0	.0	1.1	3.3	.9	.0	.0	5.5
7	.0	.0	.3	.7	.0	.0	1.2	.0	.2	3.1	1.8	.0	.0	3.1
8-9	.0	.0	.0	.6	.0	.0	.9	.0	.3	.3	.6	.0	.0	1.3
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.3	.6	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.0	3.9	2.2	.0	.0	12.4	.9	9.8	16.6	3.1	.0	.0	32.4

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.3	.0	.0	.0	.0	.7	.3	.3	.0	.0	.0	.0	.6
1-2	.3	4.1	1.6	.0	.0	.0	6.1	.0	1.7	.7	.0	.0	.0	2.4
3-4	.0	2.4	3.1	.1	.0	.0	3.7	.0	4.3	2.6	.0	.0	.0	3.3
5-6	.0	.3	3.0	.1	.0	.0	3.6	.0	.4	2.3	.2	.0	.0	3.0
7	.0	.0	.9	.3	.2	.0	1.4	.0	.0	.9	.3	.0	.0	1.3
8-9	.0	.0	.3	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	7.5	6.0	.8	.2	.0	18.0	.6	6.1	6.0	.7	.0	.0	12.9

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0011 PORTO EGRE
30.65 49.0W

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.1	.0	.0	.0	.4	.3	.0	.0	.0	.0	.0	.4
1-2	.3	2.6	.8	.0	.0	.0	3.3	.0	1.4	.8	.0	.0	.0	2.2
3-4	.0	2.3	.9	.0	.0	.0	4.0	.0	.7	1.4	.3	.0	.0	2.6
5-6	.0	.0	1.4	.6	.1	.0	2.2	.0	.3	1.1	.0	.0	.0	1.3
7	.0	.2	1.0	.2	.0	.0	1.4	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.8	4.4	1.3	.1	.0	12.1	.4	2.2	4.1	.3	.2	.0	7.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0
1-2	.0	.3	.5	.0	.0	.0	1.0	.0	.7	.0	.0	.0	.0	.7	.0
3-4	.0	.1	.3	.2	.0	.0	.6	.0	.0	.3	.0	.0	.0	.3	.0
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.3	.0	.0	.0	.3	.0
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.7	.3	.0	.0	2.6	.0	.8	1.6	.1	.0	.0	2.5	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	4.6	3.3	.2	.0	.0	.0	8.0	410
1-2	2.1	17.9	7.9	.0	.0	.0	27.9	
3-4	.2	10.2	16.7	1.0	.0	.0	28.9	
5-6	.0	2.5	13.8	2.0	.2	.0	18.4	
7	.0	.3	7.0	3.4	.2	.0	11.0	
8-9	.0	.0	1.3	1.6	.0	.0	3.0	
10-11	.0	.0	.3	1.3	.2	.0	2.0	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.2	.3	.2	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	34.3	47.7	10.7	.3	.0	100.0	

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	1.1	10.2	13.1	7.3	2.5	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	4
6-7	.0	1.1	6.0	11.9	3.3	2.0	1.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	5
8-9	.0	.3	2.3	4.2	4.4	1.8	1.6	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	177	6
10-11	.0	.3	.4	.6	1.3	.6	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
12-13	.0	.0	.4	.3	.3	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
513	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	2.2	3.1	3.3	2.3	2.0	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	4
TOTAL	39	178	328	317	148	70	83	7	9	2	0	0	1	0	0	0	0	0	0	1194	5
PCT	3.3	14.9	27.5	26.5	15.7	5.9	4.6	.6	.8	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1968-1976

MARCH

AREA 0011 PORTO ALEGRE
30.8S 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	2.9	1.3	.0	.0	.0	.3	7.1	3.5	4.2	.4	.0	1.0	.0	83.7
NE	3.1	2.4	.6	.0	.0	.0	.3	6.2	1.6	2.7	1.0	.0	1.0	.0	87.7
E	4.0	1.3	.5	.0	.0	.0	.0	6.0	3.4	1.0	.0	.0	.0	.0	89.5
SE	2.6	2.3	1.3	.0	.0	.0	.0	6.4	1.8	.5	.0	.0	.4	.0	91.0
S	3.2	3.7	.2	.0	.0	.0	.0	7.6	2.4	1.5	.0	.0	.0	.0	88.6
SW	2.3	1.6	.4	.0	.0	.0	.4	5.0	2.4	2.2	.4	.0	.1	.0	90.0
W	3.0	3.1	.0	.0	.0	.0	.0	8.1	.9	2.2	1.2	.0	.9	.0	86.6
NW	4.6	4.2	.8	.0	.0	.0	.0	9.6	7.1	.8	.0	.0	.0	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.2	.0	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	.0	91.7
TOT PCT	3.2	2.3	.7	.0	.0	.0	.2	6.3	2.3	1.9	.4	.0	.3	.0	88.3
TOT OBS:	1910														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.3	.3	.6	.0	.0	.0	.2	6.3	1.9	3.6	.4	.0	.2	.0	87.7
0600	4.0	.3	1.1	.0	.0	.0	.2	7.8	3.6	4.2	.2	.0	.2	.0	84.2
1200	2.8	.0	.8	.0	.0	.0	.0	6.6	2.1	.0	1.1	.0	.8	.0	89.4
1800	2.4	.6	.4	.0	.0	.0	.2	4.7	2.4	.0	.2	.0	.9	.0	91.8
TOT PCT	3.2	.4	.7	.0	.0	.0	.2	6.4	2.3	2.0	.3	.0	.3	.0	88.2
TOT OBS:	1972														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	0.0	3.7	1.2	.0	.0		11.3	13.1		6.1	10.3	12.3	17.9	13.4	12.9	10.7	9.2
NE	.3	9.2	14.0	3.7	.1	.0		27.6	13.4		27.3	27.9	29.2	16.2	27.7	26.6	26.7	27.3
E	.7	6.4	6.6	1.1	.2	.0		13.0	12.3		16.9	16.8	13.3	11.3	13.1	12.6	16.0	4.9
SE	.8	6.5	3.2	1.3	.2	.1		14.1	12.1		13.9	13.3	13.1	11.3	13.3	12.8	14.3	15.8
S	1.0	3.3	4.2	1.1	.0	.0		11.6	11.4		13.8	11.0	10.4	11.9	10.7	11.7	11.6	11.4
SW	.6	1.5	4.3	1.3	.2	.0		10.9	13.0		10.3	9.4	9.4	17.9	11.6	11.4	12.0	19.0
W	.3	1.3	1.4	.6	.2	.0		4.3	14.0		3.0	3.2	4.3	6.0	4.9	3.8	4.2	11.4
NW	.6	1.8	1.3	.0	.0	.0		3.9	11.3		3.0	4.2	4.2	2.4	3.9	4.8	3.8	.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		1.3	1.6	1.7	.0	1.3	.3	.7	2.2
TOT OBS	462	2807	3160	690	70	11	7200		12.3		1310	903	1301	42	1305	1020	1.64	46
TOT PCT	6.4	39.0	43.9	9.6	1.0	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	1.8	3.6	3.4	.3	.0			11.3	13.1		9.0	12.7	13.1
NE	3.3	13.1	6.2	.6	.0			27.6	13.4		27.7	29.1	27.2
E	2.9	8.2	3.3	.4	.0			13.0	12.3		16.8	13.4	12.9
SE	3.3	7.4	2.6	.4	.2			14.1	12.1		13.7	12.9	13.1
S	3.3	3.6	2.3	.3	.0			11.6	11.4		12.7	10.3	11.2
SW	2.1	3.3	2.9	.4	.1			10.9	13.0		10.0	9.7	11.3
W	.8	2.0	1.1	.2	.1			4.3	14.0		3.1	4.2	3.3
NW	1.3	1.8	.7	.1	.0			3.9	11.3		3.3	4.2	4.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	1.4							1.4	.0		1.3	.4	1.3
TOT OBS	1473	3724	1768	196	29	7200			12.3		2212	343	2331
TOT PCT	20.0	51.7	24.6	2.7	.4			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1869-1976

MARCH

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.5	
2<5	PCP	.1	.1	.1	.2	.2	.1	.0	.0	.0	.1	.9	
	NO PCP	.3	.3	.2	.0	.1	.1	.1	.0	.0	.1	1.3	
	TOT %	.4	.5	.4	.2	.4	.2	.1	.0	.0	.2	2.9	
5<10	PCP	.4	.6	.5	.4	.5	.3	.3	.2	.0	.0	3.1	
	NO PCP	1.3	4.4	3.0	2.1	1.7	2.6	.7	.0	.4	.4	17.1	
	TOT %	1.9	4.9	3.6	2.5	2.2	2.9	1.0	.9	.4	.4	20.2	
10+	PCP	.5	.8	.1	.3	.2	.2	.1	.1	.0	.0	2.0	
	NO PCP	7.3	20.4	11.4	11.0	10.0	8.8	3.1	2.1	.0	.7	74.8	
	TOT %	7.6	21.2	11.8	11.3	10.1	9.1	3.2	2.2	.0	.7	76.9	
TOT OBS													
TOT PCT		10.0	28.4	19.6	14.1	12.8	12.1	4.2	3.1	.0	1.3	100.0	1907

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	.9	
	11-21	.3	.3	.1	.2	.2	.1	.1	.0	.0	.0	1.4	
	22+	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.6	.6	.3	.4	.4	.4	.2	.1	.0	.1	3.0	
5<10	0-3	.0	.2	.1	.0	.0	.1	.0	.1	.0	.2	.9	
	4-10	.7	1.1	.8	.8	.7	.6	.3	.2	.0	.0	3.2	
	11-21	1.3	2.7	1.3	.9	.9	1.0	.3	.3	.0	.0	6.7	
	22+	.2	.6	.4	.4	.3	.4	.3	.1	.0	.0	2.7	
	TOT %	2.2	4.6	2.6	2.1	1.9	2.2	.7	.8	.0	.2	17.6	
10+	0-3	.3	.7	.5	.7	.8	.3	.3	.4	.0	.8	4.6	
	4-10	3.0	7.6	3.5	3.5	4.4	3.5	1.2	1.2	.0	.0	22.0	
	11-21	4.5	12.7	5.7	3.9	3.6	3.7	1.2	.7	.0	.0	35.9	
	22+	.7	1.6	.4	.8	.8	1.3	.6	.1	.0	.0	6.2	
	TOT %	8.5	22.5	12.1	10.9	9.9	9.6	3.2	2.5	.0	.8	78.7	
TOT OBS													
TOT PCT		11.4	28.1	19.3	19.5	11.8	11.2	4.1	3.4	.0	1.2	100.0	4049

MARCH

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1868-1976

AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.5	.0	2.3	3.6	10.9	4.1	4.1	.5	.3	.0	26.1	79.9	394
06009	.5	.3	2.3	4.2	8.9	8.1	3.1	.3	.3	.5	28.4	71.6	384
12015	.8	.5	1.3	7.2	8.5	9.5	5.2	.8	.8	.8	35.3	64.7	388
18021	.0	.0	1.1	5.0	11.1	4.7	5.3	1.3	.0	.5	28.9	71.1	380
TOT PCT	7 .5	3 .2	27 1.7	77 5.0	152 9.8	102 6.6	68 4.4	11 .7	5 .3	7 .5	459 29.7	1087 70.3	1546 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.1	.2	.7	3.4	18.6	77.0	1218
06009	.2	.1	.6	3.2	20.7	75.3	857
12015	.2	.2	.6	2.8	16.5	79.7	1223
18021	.0	.0	.7	2.3	14.5	82.3	813
TOT	3	6	27	123	723	3227	4111
PCT	.1	.1	.7	3.0	17.6	78.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.5	2.9	10.1	18.3	71.6	377
06009	.8	3.6	9.6	19.9	70.3	366
12015	.8	3.0	12.4	24.9	63.1	371
18021	.0	1.1	8.6	21.1	70.3	370
TOT	8	39	191	311	1022	1484
PCT	.5	2.6	10.2	21.0	68.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.1	.1	.3	.1	.0	10	.7
80/84	.0	.0	.0	.2	.4	2.9	2.0	.5	89	6.1
75/79	.0	.0	.1	1.0	4.2	13.1	16.2	7.5	617	42.0
70/74	.0	.0	.3	2.9	8.8	10.6	12.6	6.9	618	42.1
65/69	.0	.0	.1	1.2	2.3	2.3	1.4	1.3	127	8.7
60/64	.0	.0	.0	.0	.1	.1	.1	.0	6	.4
50/54	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
TOTAL	0	0	9	79	235	431	478	236	1468	100.0
PCT	.0	.0	.6	5.4	16.0	29.4	32.4	16.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.4	.1	.1	.0	.1	.0	.0	.0	.0
80/84	1.5	2.8	.4	.4	.3	.5	.1	.2	.0	.0
75/79	3.9	14.3	7.3	5.4	2.7	3.2	.9	1.4	.0	.3
70/74	2.1	8.5	7.9	7.6	7.1	3.3	1.8	1.3	.0	.3
65/69	.3	.3	.6	1.3	2.6	2.2	1.0	.1	.0	.0
60/64	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	9.9	26.4	16.3	14.9	12.7	11.7	3.8	2.9	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	80	78	74	68	64	61	73.3	2198
06009	82	79	77	73	67	64	58	72.9	1347
12015	92	79	81	75	69	63	60	73.0	2274
18021	89	85	82	76	69	66	54	73.8	1262
TOT	92	82	80	74	68	64	54	74.3	7079

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.9	16.7	27.3	33.3	18.8			79	414
06009	.0	4.1	14.7	23.7	25.7	21.8			80	367
12015	.0	7.8	16.6	28.4	31.4	15.8			78	398
18021	.0	9.8	16.3	38.3	28.3	7.1			73	337
TOT	0	95	744	442	490	245			78	1516

MARCH

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1968-1976

AREA 0011 PORTO ALEGRE
30.05 49.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.3	.1	.1	10	.0	.6
7/8	.0	.0	.0	.0	.0	.1	.4	.4	.2	.0	20	.0	1.2
6	.0	.0	.0	.0	.0	.1	.1	.3	.1	.0	10	.0	.6
5	.0	.0	.0	.0	.1	.1	.9	.3	.2	.0	28	.0	1.6
4	.0	.0	.0	.1	.0	.7	1.4	.5	.0	.0	47	.0	2.7
3	.0	.0	.0	.0	.1	1.2	1.7	.5	.0	.0	61	.1	3.5
2	.0	.0	.0	.0	.5	2.3	3.3	.5	.0	.0	114	.1	6.5
1	.0	.0	.0	.0	1.0	4.4	5.4	.1	.0	.0	189	.1	10.6
0	.0	.0	.0	.3	2.2	8.3	4.8	.2	.0	.0	274	.2	15.6
-1	.0	.0	.0	.3	2.8	7.3	2.5	.0	.0	.0	223	.0	12.9
-2	.0	.0	.2	.6	3.6	7.0	1.2	.1	.0	.0	219	.0	12.6
-3	.0	.0	.1	.3	3.1	4.9	.4	.0	.0	.0	132	.0	8.8
-4	.0	.0	.1	.3	4.0	3.2	.1	.0	.0	.0	149	.1	8.3
-5	.0	.0	.2	.9	2.7	1.2	.1	.0	.0	.0	87	.0	5.0
-6	.0	.0	.0	.7	2.7	.6	.0	.0	.0	.0	69	.0	4.0
-7/-8	.1	.0	.1	.9	1.7	.6	.0	.0	.0	.0	33	.0	3.2
-9/-10	.0	.0	.1	.4	.3	.1	.0	.0	.0	.0	19	.1	.8
-11/-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	8	.0	.3
TOTAL	1	0	17	103	425	733	383	98	11	2	1733	8	1725
PCT	.1	.0	1.0	5.9	24.5	42.3	22.1	3.3	.6	.1	100.0	.5	99.5

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-2	.4	.0	.0	.0	.0	.0	.4	.2	1.0	.0	.0	.0	.0	1.2
3-4	.0	2.4	1.0	.0	.0	.0	3.4	.4	4.8	1.4	.0	.0	.0	7.6
5-6	.0	.4	1.9	.2	.0	.0	2.4	.0	2.2	4.1	.2	.0	.0	6.4
7	.0	.3	2.3	.3	.0	.0	2.9	.0	1.0	2.9	.2	.0	.0	4.2
8-9	.0	.0	1.0	.1	.0	.0	1.1	.0	.2	2.3	.1	.0	.0	2.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.2	.0	.0	1.0
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	6.4	1.0	.0	.0	11.1	.6	9.4	13.2	1.0	.0	.0	24.2

HGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
1-2	.2	1.1	.0	.0	.0	.0	1.3	.8	.1	.0	.0	.0	.0	.9
3-4	.0	4.3	.7	.0	.0	.0	4.9	.2	2.2	.8	.0	.0	.0	3.2
5-6	.0	1.3	3.2	.2	.0	.0	4.9	.2	1.6	2.7	.2	.0	.0	4.8
7	.0	.1	1.8	.0	.0	.0	1.9	.0	.4	1.3	.2	.0	.0	2.0
8-9	.0	.3	.9	.3	.0	.0	1.6	.0	.2	.9	.0	.0	.0	1.1
10-11	.0	.2	.2	.0	.0	.0	.4	.0	.0	.8	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.5	6.8	.3	.0	.0	13.0	1.3	4.3	5.9	.6	.0	.0	12.2

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0011 PORTO ALEGRE
30.85 49.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	3.9	7.0	.0	.0	.0	1.4	.5	2.2	.0	.0	.0	.0	.3	
1-2	.1	3.2	1.2	.0	.0	.0	4.5	.0	1.1	.4	.0	.0	.0	1.5	
3-4	.0	1.3	2.1	.1	.0	.0	3.3	.0	.9	3.3	.2	.0	.0	4.1	
5-6	.0	.9	1.8	.1	.0	.0	2.3	.0	.2	2.3	.9	.0	.0	3.3	
7	.0	.1	2.9	.1	.0	.0	2.8	.0	.2	1.5	.4	.0	.0	2.2	
8-9	.0	.0	.1	.4	.0	.0	.5	.0	.0	.8	.2	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.9	7.0	1.0	.0	.0	13.4	.6	2.3	8.6	1.8	.0	.0	12.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
1-2	.0	.5	.2	.0	.0	.0	.7	.0	1.0	.8	.0	.0	.0	1.8	
3-4	.0	.1	.3	.1	.0	.0	.6	.0	.0	.7	.0	.0	.0	.7	
5-6	.0	.0	.7	1.0	.0	.0	1.7	.0	.0	.2	.2	.0	.0	.3	
7	.0	.0	.2	.2	.2	.0	.6	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.7	1.5	1.8	.2	.0	4.2	.2	1.3	2.0	.3	.0	.0	3.8	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	4.2	.0	.0	.0	.0	9.5	
1-2	.8	19.0	7.4	.0	.0	.0	27.2	
3-4	.2	7.6	17.7	1.3	.0	.0	26.9	
5-6	.0	2.3	13.0	3.0	.0	.0	18.3	
7	.0	1.1	9.3	1.3	.2	.0	12.0	
8-9	.0	.2	2.3	1.3	.0	.0	4.0	
10-11	.0	.0	.4	.2	.0	.0	.8	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.2	.0	.4	.0	.0	.6	
17-19	.0	.2	.0	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	33.0	30.7	7.8	.2	.0	100.0	323

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	9.3	13.3	8.0	3.4	.6	.4	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	442	4
6-7	.0	1.6	7.3	10.3	7.1	1.8	1.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	382	3
8-9	.0	.6	2.0	2.3	3.8	2.9	1.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	7
10-11	.0	.9	.6	.3	1.1	1.2	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	7
12-13	.0	.0	.2	.4	.2	.6	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	23	8
15-16	.0	.0	.0	.1	.2	.0	.2	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDT	1.9	2.7	2.9	2.2	1.3	.4	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	4
TOTAL	4.0	17.4	22.2	23.3	21.0	9.0	5.1	2.9	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	1222	3
PCT	3.3	14.2	26.4	24.1	17.2	7.4	4.2	2.0	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976AREA 0011 PORTO ALEGRE
30.83 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.5	1.1	.8	.0	.0	.0	.0	4.4	.4	5.2	.4	.0	.6	.0	89.1
NE	3.2	.8	.6	.0	.0	.0	.0	4.6	1.6	1.3	.9	.0	.9	.0	90.9
E	2.1	2.7	.5	.0	.0	.0	.0	5.4	1.9	.9	.0	.0	1.0	.0	90.9
SE	4.4	2.3	.0	.0	.0	.0	.0	6.6	2.7	1.6	.0	.0	.0	.0	89.1
S	3.1	1.3	1.0	.0	.0	.0	.0	3.1	3.0	1.2	1.1	.0	.0	.0	89.6
SW	1.8	3.4	1.6	.0	.0	.0	.0	6.6	1.6	1.7	.1	.0	.7	.0	89.6
W	1.7	2.2	.0	.0	.0	.0	.0	3.9	1.3	2.2	.0	.0	.0	.0	92.4
NW	3.8	3.1	2.0	.0	.0	.0	.0	10.9	.0	4.3	1.3	.0	.0	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	.0	93.5
TOT PCT	2.8	1.9	.8	.0	.0	.0	.0	5.4	1.6	2.1	.5	.0	.5	.0	89.9
TOT OBS: 2066															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0800Z	2.7	2.3	.8	.0	.0	.0	.0	5.3	1.3	4.7	1.1	.0	.8	.0	86.5
0800Z	3.2	1.2	.8	.0	.0	.0	.0	5.2	2.0	4.0	.2	.0	.2	.0	88.7
1201Z	1.6	1.9	.6	.0	.0	.0	.0	4.2	1.9	.2	.3	.0	.3	.0	93.1
1802Z	3.7	2.4	.9	.0	.0	.0	.0	7.0	1.3	.2	.9	.0	.9	.0	7.0
TOT PCT	2.7	1.9	.8	.0	.0	.0	.0	5.4	1.7	2.2	.6	.0	.5	.0	89.7
TOT OBS: 2111															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	4.6	9.9	1.8	.1	.0	13.1	13.4	10.9	12.7	15.2	12.5	15.0	14.1	11.4	11.4	2.5
NE	.9	7.6	11.9	2.2	.1	.0	22.7	13.2	23.4	25.5	23.3	28.5	22.2	20.1	21.7	32.6	
E	.7	3.7	4.9	.7	.1	.0	11.5	11.9	12.4	11.6	12.7	20.6	10.4	9.8	11.6	12.3	
SE	.7	5.4	4.3	.8	.1	.0	11.6	11.4	12.8	12.8	10.2	.0	11.1	11.7	11.7	14.8	
S	.8	5.0	4.7	1.2	.1	.0	11.8	12.2	13.0	11.6	10.6	13.2	11.0	11.3	13.5	8.2	
SW	.7	4.4	6.2	2.5	.9	.0	14.3	13.0	15.7	12.5	11.7	17.5	13.8	15.8	16.0	16.8	
W	.6	2.3	2.4	1.5	.4	.0	7.2	15.1	3.6	3.8	7.7	7.9	7.5	9.1	7.3	11.1	
NW	.4	3.0	1.7	.6	.1	.0	5.9	11.8	4.7	5.3	6.2	.0	7.2	6.8	9.7	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.8	2.3	2.4	.0	1.9	1.3	1.2	.0	.0
TOT OBS	345	2788	3691	854	103	9	7370	12.8	1322	920	1313	57	1323	1109	1363	61	
TOT PCT	7.4	37.8	41.9	11.3	1.4	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.4	6.3	3.9	.8	.0	13.1	13.4	11.1	15.1	14.6	11.0	
NE	3.6	11.8	6.8	.8	.0	22.7	13.2	24.4	23.5	21.2	22.2	
E	2.8	6.1	2.3	.2	.0	11.5	11.9	12.1	13.0	10.1	11.7	
SE	3.0	6.0	2.3	.3	.0	11.6	11.4	12.8	9.7	11.4	11.8	
S	2.8	3.9	2.7	.3	.0	11.8	12.2	12.4	10.7	11.1	13.2	
SW	2.5	5.8	4.8	1.1	.1	14.3	13.0	14.4	12.0	14.7	16.0	
W	1.7	2.5	2.0	.8	.1	7.2	15.1	3.6	7.7	8.2	7.5	
NW	1.9	2.7	1.0	.3	.1	5.9	11.8	4.9	5.9	7.0	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8					1.8	.0	2.0	2.3	1.6	1.1	
TOT OBS	1656	3468	1919	293	34	7370	12.8	2242	1370	2434	1324	
TOT PCT	22.8	47.1	26.0	4.0	.3	100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1976
(COVER-ALL) 1860-1976AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.0	3.3	39.4	41.9	9.9	1.4	.1	12.5	100.0	2242
0600Z	2.3	6.0	37.4	42.2	10.9	1.0	.1	12.6	100.0	1970
1201Z	1.6	5.7	36.8	41.0	13.1	1.7	.0	13.1	100.0	2434
1802Z	1.1	5.7	37.5	43.4	10.7	1.3	.2	12.9	100.0	1924
TOT	130	418	2788	3091	834	103	.9	12.8		7370
PCT	1.8	5.6	37.8	41.9	11.3	1.4	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	3.3	2.2	2.9	1.9		3.6
NE	9.6	4.8	7.9	2.0		3.7
E	5.0	3.3	4.6	2.0		4.1
SE	2.6	2.3	3.3	1.4		4.6
S	4.7	2.4	3.8	2.6		4.2
SW	4.8	3.3	4.1	1.8		4.0
W	1.6	1.0	2.4	.7		4.3
NW	1.5	.5	1.1	.8		4.2
VAR	.0	.0	.0	.0		.0
CALM	.9	.1	.2	.1		2.3
TOT OBS	318	290	438	196	1442	4.0
TOT PCT	35.9	20.1	30.4	19.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M) >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000	100	300	600	1000	2000	3000	5000	6500	8000+	NM <3/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.4	.8	.8	.1	.2	.1	.0	10.0	
NE	.1	.0	.1	1.0	1.6	1.6	.7	.2	.2	.0	18.6	
E	.0	.0	.4	.7	1.9	1.6	.5	.0	.0	.1	9.6	
SE	.0	.0	.2	.7	1.0	1.0	.8	.1	.0	.1	6.0	
S	.0	.1	.3	1.1	1.6	1.1	.5	.3	.1	.1	8.3	
SW	.0	.1	.1	1.0	.9	1.1	.5	.3	.0	.2	10.1	
W	.0	.0	.0	.6	.8	.4	.9	.2	.1	.1	3.3	
NW	.0	.0	.2	.2	.3	.3	.2	.2	.2	.1	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	1.1	
TOT OBS	1	2	21	82	129	115	32	22	9	9	1000	1442
TOT PCT	.1	.1	1.3	5.7	8.9	8.0	3.6	1.3	.6	.6	69.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISIB (NM)

CEILING (FEET)	OR			VISIB (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	
>OR >6000	.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	
>OR >4000	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
>OR >3000	4.3	6.0	6.3	6.3	6.3	6.3	6.3	6.3	
>OR >2000	10.2	13.6	14.2	14.2	14.2	14.2	14.2	14.2	
>OR >1000	16.9	23.0	23.2	23.3	23.3	23.3	23.3	23.3	
>OR >600	20.8	27.6	29.0	29.2	29.2	29.2	29.2	29.2	
>OR >300	21.3	28.8	30.5	30.6	30.6	30.6	30.6	30.6	
>OR >150	21.3	28.6	30.6	30.7	30.7	30.7	30.7	30.7	
>OR >0	21.3	28.9	30.7	30.8	30.8	30.8	30.8	30.8	
TOTAL	313	420	446	448	448	448	448	448	

TOTAL NUMBER OF OBS: 1434

PCT FREQ NM <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CO	TOTAL OBS
13.1	16.0	16.7	17.5	9.0	7.2	7.3	7.4	9.8	.1	1378

APRIL

PERIOD: (PRIMARY: 1914-1976
(OVER-ALL) 1960-1976AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	*	.0	.0	.0	.0	.0	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.0	.0	.0	.0	*	.0	.0	.2	
1<2	PCP	.0	.1	.0	.0	.0	*	.0	*	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	*	.1	.0	*	.0	.0	.2	
2<5	PCP	.0	.2	.0	.0	.2	.2	*	.2	.0	.0	1.0	
	NO PCP	.1	.4	.2	.1	.2	.2	.1	.1	.0	.0	1.9	
	TOT %	.1	.6	.2	.1	.4	.4	.1	.3	.0	.0	2.4	
5<10	PCP	.3	.7	.3	.3	.3	.4	.1	.1	.0	.0	2.9	
	NO PCP	3.8	3.3	1.9	1.2	2.1	3.1	1.7	1.4	.0	.1	20.6	
	TOT %	4.1	4.0	2.4	1.5	2.5	3.6	1.8	1.5	.0	.1	23.4	
10+	PCP	.1	.2	.1	.3	.1	.2	.1	.1	.0	.0	1.3	
	NO PCP	9.2	18.1	10.8	7.2	9.3	9.7	4.4	2.8	.0	1.0	72.5	
	TOT %	9.3	18.3	11.0	7.5	9.4	9.9	4.5	2.8	.0	1.0	73.7	
TOT OBS													2062
TOT PCT		13.6	23.0	13.7	9.1	12.3	14.0	6.5	4.8	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0		
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0		
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0		
	11-21	.1	.4	.2	.1	.2	.2	.0	.1	.0	.0	1.3		
	22+	.0	.1	.1	.0	.1	.2	.1	.1	.0	.0	.7		
	TOT %	.2	.6	.3	.3	.4	.6	.2	.2	.0	.0	2.0		
5<10	0-3	.2	.1	.1	.1	.1	.0	.2	.1	.0	.2	1.1		
	4-10	.9	1.3	.6	.9	.3	.7	.3	.6	.0	.0	3.8		
	11-21	1.4	2.4	.9	.8	1.0	1.3	.3	.4	.0	.0	6.6		
	22+	.0	.8	.2	.2	.3	.8	.6	.1	.0	.0	3.5		
	TOT %	3.1	4.5	1.8	2.0	1.9	2.9	1.4	1.2	.0	.2	16.9		
10+	0-3	.3	.4	.3	.4	.4	.5	.4	.3	.0	1.1	4.4		
	4-10	4.5	7.1	4.3	4.7	3.9	3.5	2.1	2.6	.0	.0	31.8		
	11-21	4.5	9.4	4.3	3.2	3.8	5.3	2.5	1.2	.0	.0	33.7		
	22+	.7	1.2	.3	.3	.9	2.3	1.3	.3	.0	.0	7.6		
	TOT %	9.1	18.1	9.5	8.7	9.0	11.7	5.8	4.4	.0	1.1	77.3		
TOT OBS														4073
TOT PCT		12.5	23.4	11.8	11.0	11.4	13.3	7.3	3.9	.0	1.3	100.0		

APRIL

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	130 299	300 399	400 499	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	.3	.0	.8	6.0	7.0	5.1	3.3	.5	.3	.0	23.3	76.7	369
06009	.0	.0	1.3	7.5	7.7	5.9	3.2	1.3	.8	.8	28.5	71.5	375
12015	.0	.0	1.2	5.1	9.5	9.2	3.7	1.6	.5	1.2	31.9	68.1	433
18021	.0	.5	2.2	3.5	10.1	9.8	3.3	2.2	.8	.3	32.7	67.3	367
TOT	1	2	21	85	133	117	92	22	9	9	451	1095	1544
PCT	.1	.1	1.4	5.5	8.6	7.6	3.4	1.4	.6	.6	29.2	70.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.1	.2	.	3.0	20.2	75.9	1191
06009	.0	.2	.3	2.8	19.3	77.2	860
12015	.1	.0	.6	2.1	19.2	78.1	1268
18021	.1	.0	.9	3.3	18.0	77.7	799
TOT	3	4	26	115	793	3179	4118
PCT	.1	.1	.6	2.7	19.3	77.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <3	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	.3	1.2	9.6	16.4	74.0	344
06009	.0	1.4	10.8	20.2	69.0	392
12015	.0	1.2	7.8	23.7	66.5	429
18021	.0	2.8	9.7	23.1	63.2	351
TOT	1	24	137	320	997	1454
PCT	.1	1.7	9.4	22.0	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.1	.1	.0	.0	.0	2	.1
80/84	.0	.0	.1	.1	.2	.8	.4	.1	15	1.0
79/79	.0	.0	.1	.9	1.3	5.8	6.7	3.0	289	16.7
70/74	.0	.0	.1	1.5	7.5	13.1	16.5	10.6	767	45.4
69/69	.0	.0	.2	2.6	6.9	6.0	5.7	3.9	396	23.5
60/64	.0	.0	.4	2.4	2.0	1.2	.8	.6	105	6.8
59/59	.0	.0	.0	.1	.1	.2	.2	.1	10	.6
TOTAL	0	0	8	82	287	416	477	284	1554	100.0
PCT	.0	.0	.5	5.5	18.5	26.8	30.7	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.2	.5	.1	.6	.1	.0	.0	.0	.0	.0
79/79	4.8	9.6	1.2	.6	.7	1.1	.7	.8	.0	.2
70/74	6.9	13.6	8.1	3.3	3.1	4.8	1.8	3.1	.0	.4
69/69	1.3	3.2	2.6	3.6	4.7	3.6	2.8	.9	.0	.6
60/64	.3	.2	.0	.4	2.2	2.2	1.0	.3	.0	.0
59/59	.0	.1	.0	.0	.1	.2	.2	.0	.0	.0
TOTAL	13.9	24.2	12.2	10.1	13.0	13.9	6.5	5.1	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	77	76	71	63	59	52	70.1	2231
06009	79	77	78	70	62	60	54	69.6	1391
12015	86	80	78	72	64	60	59	71.4	2293
18021	92	82	79	73	65	62	54	72.2	1286
TOT	92	80	77	71	64	60	52	70.8	7291

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.5	10.1	26.2	27.7	22.8	79	425		
06009	.0	3.3	15.3	22.2	32.7	24.5	80	379		
12015	.0	4.9	15.7	28.8	33.3	17.1	79	451		
18021	.0	8.7	23.9	29.0	29.6	9.0	73	335		
TOT	0	90	290	422	491	299	78	1568		

APRIL

PERIOD: (PRIMARY) 1914-1976
(OVER-ALL) 1860-1976AREA 0011 PORTO ALEGRE
30.6S 49.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
9/10	.0	.0	.0	.0	.0	.2	.1	.0	3	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.1	.1	10	.0	.5
6	.0	.0	.0	.1	.4	.2	.0	.0	13	.0	.7
5	.0	.0	.0	.2	.5	.5	.1	.0	25	.0	1.3
4	.0	.0	.5	.7	1.3	.6	.1	.0	56	.0	3.0
3	.0	.0	.2	1.0	1.7	.9	.1	.0	70	.1	3.7
2	.0	.0	.9	1.7	3.6	1.0	.1	.0	131	.1	7.1
1	.0	.1	.9	3.0	4.5	1.0	.0	.0	168	.1	9.0
0	.1	.5	1.3	3.8	6.6	.9	.0	.0	283	.1	15.2
-1	.0	.4	1.8	4.7	5.1	.1	.0	.0	225	.1	12.0
-2	.1	.6	2.4	5.3	3.7	.1	.0	.0	223	.1	12.0
-3	.0	.3	2.4	4.9	1.6	.0	.0	.0	171	.2	9.1
-4	.1	.4	2.6	4.0	1.1	.0	.0	.0	194	.1	8.3
-5	.1	.6	1.7	2.1	.1	.0	.0	.0	83	.0	4.6
-6	.4	.9	1.4	1.1	.2	.0	.0	.0	74	.0	4.0
-7/-8	.4	1.0	2.5	1.3	.1	.0	.0	.0	101	.0	3.3
-9/-10	.2	.8	.6	.3	.0	.0	.0	.0	38	.0	2.1
-11/-13	.1	.3	.1	.1	.0	.0	.0	.0	13	.0	.7
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	29	113	339	676	568	104	2	1893	12	1841	
PCT	1.6	6.1	19.1	36.3	30.5	3.6	.5	.1	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	41	.0	.9	.0	.0	.0	.0	1.6
1-2	.2	2.1	.3	.0	.0	.0	2.6	1-2	.4	5.1	2.3	.0	.0	.0	7.7
3-4	.0	.8	2.3	.0	.0	.0	2.7	3-4	.0	2.4	5.2	.4	.0	.0	8.0
5-6	.0	.4	1.9	.3	.0	.0	2.6	5-6	.0	.3	3.6	.7	.0	.0	4.6
7	.0	.4	.2	.4	.0	.0	.5	7	.0	.0	2.7	.9	.2	.0	3.8
8-9	.0	.0	.2	.0	.0	.0	.2	8-9	.0	.0	.4	.3	.0	.0	.9
10-11	.0	.0	.0	.2	.0	.0	.2	10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	4.8	.9	.0	.0	9.1	TOT PCT	1.1	8.7	14.1	2.9	.2	.0	27.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.5	.8	.0	.0	.0	.0	1.3	41	.0	1.0	.0	.0	.0	.0	1.0
1-2	.2	2.7	1.9	.0	.0	.0	4.8	1-2	.0	3.7	.6	.0	.0	.0	4.3
3-4	.0	.9	3.3	.2	.0	.0	4.6	3-4	.0	1.7	2.0	.0	.0	.0	3.7
5-6	.0	.4	2.3	.2	.0	.0	3.1	5-6	.0	.2	.1	.0	.0	.0	.3
7	.0	.4	.3	.0	.0	.0	.7	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.7	.0	.0	1.1	8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.8	8.6	1.3	.0	.0	13.6	TOT PCT	.0	6.6	2.7	.2	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1976

APRIL

AREA 0011 PORTO ALEGRE
50.65 49.14

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.3	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	3.1	1.2	.0	.0	.0	4.3	.0	1.9	.3	.0	.0	.0	2.2
3-4	.2	1.3	3.2	.2	.0	.0	4.9	.0	1.1	2.7	.2	.0	.0	3.9
5-6	.0	.8	2.6	.1	.0	.0	3.6	.0	.1	3.3	.2	.0	.0	3.6
7	.0	.3	.9	.7	.0	.0	1.9	.0	.0	.9	.2	.0	.0	.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.3	.0	.0	.4	.0	.0	.4	.3	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.8	8.2	1.3	.0	.0	16.1	.9	3.8	7.2	1.0	.0	.0	12.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.0	.0	.0	.0	.2	.0	.7	.2	.0	.0	.0	.9	
1-2	.4	.8	.1	.0	.0	.0	1.3	.2	.8	.4	.0	.0	.0	1.4	
3-4	.0	.1	.7	.5	.0	.0	1.4	.0	.5	.4	.0	.0	.0	.9	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.6	.2	.0	.0	.4	
7	.0	.2	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.3	1.3	1.0	.0	.0	4.0	.2	2.1	1.9	.2	.0	.0	4.4	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	4.9	.2	.0	.0	.0	9.2	
1-2	1.4	20.3	7.0	.0	.0	.0	28.8	
3-4	.2	3.5	19.8	1.4	.0	.0	24.9	
5-6	.0	2.2	13.1	1.8	.0	.0	16.1	
7	.0	.5	4.7	2.3	.2	.0	7.9	
8-9	.0	.0	1.3	1.8	.0	.0	3.1	
10-11	.0	.0	.5	1.1	.0	.0	1.6	
12	.0	.0	.2	.4	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	556
TOT PCT	5.8	34.3	48.7	9.0	.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	9.2	12.7	6.4	2.4	1.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	413	3
6-7	.0	1.7	8.7	11.9	4.9	2.0	1.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	376	5
8-9	.0	.8	1.2	3.8	6.4	2.3	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	7
10-11	.0	.3	.2	.5	1.3	.4	.7	.1	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.3	.3	.2	.3	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	8
>15	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDOFT	.9	1.6	2.3	3.1	1.6	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
TOTAL	37	162	301	310	202	89	58	13	16	1	1	0	0	0	0	0	0	0	0	1190	5
PCT	3.1	13.6	25.3	26.1	17.0	7.5	4.9	1.1	1.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1857-1976

MAY

APEA OC. PORTO ALEGRE
30.83 48.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.0	1.1	.5	.0	.0	.0	.0	4.7	.4	4.8	4.4	.0	1.3	.0	84.9
NE	1.8	3.0	1.0	.0	.0	.0	.0	5.9	1.5	1.7	4.8	.0	.3	.0	86.1
E	4.1	2.8	1.8	.0	.0	.0	.0	8.1	3.3	2.1	4.8	.0	.3	.0	81.5
SE	5.2	2.8	2.2	.0	.0	.0	.0	9.6	2.5	.6	.6	.0	.0	.0	86.7
S	2.2	2.7	1.9	.0	.0	.0	.0	6.8	2.3	.6	.7	.0	.5	.0	85.1
SW	2.8	3.1	1.3	.0	.0	.0	.0	7.3	2.5	2.0	1.2	.0	.4	.0	87.3
W	1.8	3.2	1.1	.0	.0	.0	.3	6.3	.9	1.6	.8	.0	.4	.0	90.0
NW	2.2	3.2	.8	.0	.0	.0	.4	6.3	1.6	2.2	5.8	.0	.0	.0	84.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.3	4.3	.0	.0	.0	.0	8.7	.0	.0	4.3	.0	4.3	.0	82.6
TOT PCT	2.7	2.8	1.3	.0	.0	.0	.1	6.7	1.8	2.0	2.9	.0	.5	.0	86.4
TOT OBS	1814														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG	NO SIG WEA
0000Z	2.4	3.9	1.2	.0	.0	.0	.2	7.5	1.2	4.3	4.1	.0	.4	.0		82.9
0600Z	2.7	2.2	2.0	.0	.0	.0	.0	6.9	2.3	2.9	2.2	.0	.2	.0		85.3
1201Z	2.2	3.3	1.2	.0	.0	.0	.0	6.5	1.4	.2	3.7	.0	1.0	.0		87.1
1802Z	3.4	1.4	.7	.0	.0	.0	.0	5.5	1.8	.7	1.6	.0	.2	.0		90.4
TOT PCT TOT OBS	2.7	2.7	1.3	.0	.0	.0	.1	6.6	1.8	2.0	2.9	.0	.5	.0		86.4
	1863															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.7	5.7	8.9	1.6	.1	.0		14.0	12.6		12.8	13.6	15.6	18.3	15.3	14.0	12.5	9.7
NE	.9	7.3	8.0	1.8	.1	.0		18.2	12.7		18.8	20.6	18.7	22.6	14.9	14.1	18.2	26.7
E	.6	4.0	2.7	.7	.1	.0		8.1	11.3		9.9	8.8	8.2	3.0	7.5	6.8	7.3	12.5
SE	.8	4.8	3.3	1.0	.2	.1		10.3	12.0		10.7	10.4	10.7	12.2	9.7	10.0	10.4	9.7
S	1.0	4.4	4.0	1.2	.3	.1		11.0	12.6		11.8	10.2	9.9	14.6	11.6	11.1	11.1	7.4
SW	.7	3.0	7.6	3.6	.9	.1		17.9	16.1		17.7	16.8	17.4	17.1	17.7	17.5	20.5	11.4
W	.5	3.0	3.2	2.0	.9	.2		9.8	17.8		8.3	7.6	9.0	9.1	9.8	12.6	10.1	10.2
NW	.7	3.7	2.7	.7	.1	.1		8.0	11.9		7.1	6.3	7.9	3.0	9.4	9.2	7.9	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		3.0	3.3	3.7	.0	1.9	2.7	2.1	2.3
TOT OBS	468	2915	2399	975	215	42	7711		13.2		1384	1034	1235	41	1338	1151	1362	44
TOT PCT	8.6	37.8	37.6	12.6	2.8	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.8	7.4	3.3	.4	.1		14.0	12.6	13.1	15.7	14.8	12.4		
NE	3.6	9.3	4.9	.3	.1		18.2	12.7	19.6	18.9	16.3	18.4		
E	2.1	4.4	1.2	.3	.1		8.1	11.3	9.4	8.1	7.2	7.3		
SE	2.9	3.1	1.7	.5	.1		10.3	12.0	10.6	10.7	9.8	10.4		
S	3.0	4.9	2.5	.5	.1		11.0	12.6	11.1	10.0	11.3	11.0		
SW	2.6	7.2	6.0	1.9	.3		17.9	16.1	17.3	17.4	17.6	20.2		
W	1.6	3.3	2.6	1.6	.5		9.8	17.8	8.8	9.0	11.1	10.1		
NW	2.2	3.9	1.3	.3	.1		8.0	11.9	6.8	7.8	9.3	8.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.6						2.6	.0	3.2	2.6	2.3	2.1		
TOT OBS	1799	3523	1417	468	104	7711		13.2	1420	1396	2489	1406		
TOT PCT	23.3	45.7	23.6	6.1	1.3		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1957-1976

MAY

AREA 0011 PORTO ALEGRE
30.65 48.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.2	5.7	38.4	37.0	12.4	2.6	.7	13.1	100.0	2420
0600Z	2.6	5.6	38.8	37.4	12.2	2.9	.4	13.1	100.0	1396
1200Z	2.3	6.4	36.9	38.1	12.7	3.1	.3	13.4	100.0	2489
1800Z	2.1	6.3	37.3	38.0	13.3	2.6	.3	13.3	100.0	1406
TOT	200	485	2915	2899	975	715	.42	13.2		7711
PCT	2.6	6.0	37.8	37.6	12.6	2.8	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.2	2.0	3.6	1.5		3.7
NE	10.2	3.7	6.0	2.9		3.4
E	2.9	1.1	1.3	2.9		4.6
SE	1.9	1.6	3.0	2.7		3.2
S	3.7	2.3	3.3	1.7		4.1
SW	3.3	4.2	6.0	3.8		4.4
W	4.0	1.0	2.7	1.0		3.6
NW	3.2	1.2	1.4	1.2		3.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.2	.3		2.8
TOT OBS	479	219	360	231	1289	4.0
TOT PCT	37.2	17.0	27.9	17.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	130	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.1	.0	.2	.7	.9	.8	.3	.1	.2	.0	.0	9.1
.1	.0	.3	.9	1.7	1.2	1.2	.2	.0	.0	.0	17.3
.1	.1	.1	.3	1.8	.7	.5	.0	.0	.0	.0	4.9
.0	.1	.1	1.3	.8	.6	.3	.0	.0	.0	.0	3.5
.1	.1	.1	.6	1.0	.9	.4	.2	.0	.1	.1	7.5
.1	.1	.2	1.3	2.3	1.6	1.0	.4	.0	.1	.1	11.9
.0	.0	.0	.3	1.3	.8	.1	.1	.0	.0	.0	6.1
.0	.1	.0	.3	.7	.4	.2	.1	.1	.1	.1	5.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	1.1
.3	.6	1.4	7.4	13.8	9.4	3.4	1.8	.4	.3	.3	67.9
.4	.9	1.1	9.7	10.7	7.3	4.2	1.4	.3	.2	.2	128.9

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
>OR >5000	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>OR >3500	4.8	5.9	6.0	6.0	6.0	6.0	6.0	6.0
>OR >2000	10.4	12.8	13.3	13.3	13.3	13.3	13.3	13.3
>OR >1000	18.9	23.1	23.8	23.8	23.8	23.8	23.8	23.8
>OR >600	22.9	28.2	29.4	29.3	29.3	29.3	29.3	29.3
>OR >300	23.4	29.3	30.3	30.7	30.7	30.7	30.7	30.7
>OR >150	23.7	29.8	31.0	31.1	31.1	31.1	31.1	31.1
>OR >0	23.7	30.0	31.3	31.3	31.3	31.3	31.3	31.3
TOTAL	311	393	410	412	412	412	413	413

TOTAL NUMBER OF OBS: 1310

PCT FREQ NM <5/8: 68.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.3	14.9	14.2	10.7	7.6	6.2	7.3	6.8	11.5	.2	1310

PERIOD: (PRIMARY) 1913-1976
(OVER-ALL) 1857-1976

MAY

AREA 0011 PORTO ALEGRE
30.63 48.94

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
	TOT %	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4
	TOT %	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.6
2<2	PCP	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.2	.4	.5	.1	.1	.2	.0	.1	.0	.1	1.4	
	TOT %	.2	.5	.5	.4	.2	.2	.0	.1	.0	.1	2.2	
5<10	PCP	.5	.8	.4	.2	.5	.8	.6	.4	.0	.1	4.4	
	NO PCP	3.0	3.6	1.7	2.0	2.9	3.7	2.6	1.8	.0	.2	21.5	
	TOT %	3.5	4.4	2.1	2.2	3.5	4.5	3.2	2.2	.0	.2	25.9	
10+	PCP	.1	.3	.1	.4	.1	.5	.0	.0	.0	.1	1.4	
	NO PCP	9.4	15.6	5.5	5.9	7.6	15.0	7.1	4.4	.0	.9	69.6	
	TOT %	9.4	15.9	5.6	6.3	7.6	15.5	7.1	4.4	.0	.9	71.1	
TOT OBS		1812											
TOT PCT		15.2	21.1	8.4	8.9	11.4	18.4	10.4	6.9	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.3	
	11-21	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	TOT %	.1	.2	.1	.1	.0	.2	.1	.1	.0	.0	.9	
2<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.1	.2	.1	.1	.0	.1	.0	.0	.7	
	11-21	.1	.5	.3	.2	.1	.1	.0	.0	.0	.0	1.1	
	22+	.0	.1	.1	.1	.2	.0	.0	.0	.0	.0	.7	
	TOT %	.2	.6	.3	.5	.4	.3	.1	.1	.0	.1	2.7	
5<10	0-3	.1	.2	.1	.1	.2	.1	.1	.3	.0	.2	1.3	
	4-10	.8	.7	.9	.9	1.0	.7	.6	.6	.0	.0	6.3	
	11-21	1.7	1.9	.4	.7	.6	1.4	.5	.5	.0	.0	7.9	
	22+	.4	.6	.1	.1	.4	1.3	.9	.4	.0	.0	4.1	
	TOT %	3.0	3.3	1.5	1.7	2.4	3.4	2.1	1.8	.0	.2	19.6	
10+	0-3	.6	.6	.6	.7	.6	.6	.4	.3	.0	1.7	6.1	
	4-10	4.8	5.3	3.3	4.6	4.0	4.4	2.4	2.7	.0	.0	32.4	
	11-21	4.7	7.2	2.4	2.2	3.6	6.3	2.3	1.9	.0	.0	30.4	
	22+	.9	1.1	.2	.4	.4	2.6	1.7	.4	.0	.0	7.6	
	TOT %	10.9	15.2	6.5	7.9	8.4	13.8	6.8	5.3	.0	1.7	76.5	
TOT OBS		3801											
TOT PCT		14.2	19.4	8.7	10.2	11.2	17.8	9.2	7.2	.0	2.0	100.0	

MAY

PERIOD: (24) MAY 1912-1976
(OVER-ALL) 1957-1976AREA 0011 PORTO ALEGRE
30.83 48.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6800	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	.3	.3	.3	4.2	8.4	6.9	3.9	1.5	.0	.0	29.9	74.1	332
0600Z	.3	.3	1.8	6.2	11.4	9.3	4.1	.9	.0	.6	30.8	69.2	341
1201Z	.6	.3	1.8	5.6	11.5	7.1	4.1	1.5	.9	.0	33.3	66.7	339
1802Z	.3	.9	.9	5.8	9.2	9.2	3.8	1.7	.3	.3	32.4	67.6	346
TOT	5	6	16	74	138	97	84	19	4	3	416	942	1358
PCT	.4	.4	1.2	5.4	10.2	7.1	4.0	1.4	.3	.2	30.6	69.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.3	.0	.8	3.0	21.5	74.4	1177
0600Z	.3	.0	1.0	2.2	18.9	77.7	790
1201Z	.6	.1	1.0	3.0	20.4	74.9	1182
1802Z	.3	.0	.6	2.2	16.7	80.2	773
TOT	14	1	39	103	766	2973	3892
PCT	.4	0	.9	2.6	19.7	76.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 FEET	<600 FEET	<1000 FEET	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	.3	.9	6.6	21.3	72.1	319
0600Z	.3	2.7	11.0	21.3	67.7	328
1201Z	.6	3.1	10.2	29.3	64.3	323
1802Z	.3	2.1	9.3	24.0	66.6	338
TOT	5	29	122	302	886	1310
PCT	.4	2.2	9.3	23.1	67.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT PREC
50/64	.0	.0	.0	.1	.1	.0	.0	.0	3	.2
75/79	.0	.0	.0	.3	.4	.9	1.2	.4	42	3.1
78/74	.0	.0	.0	.4	3.4	6.1	9.8	5.4	344	25.1
83/69	.0	.0	.4	2.8	6.9	9.2	11.6	11.0	374	41.9
86/64	.0	.0	.4	1.2	6.3	3.0	5.0	2.8	283	20.8
89/59	.0	.0	.1	.4	1.8	2.4	2.3	.3	106	7.7
90/54	.0	.0	.0	.0	.3	.1	.7	.1	16	1.2
93/49	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	11	73	264	323	421	277	1371	100.0
PCT	.0	.0	.8	5.3	19.4	23.6	30.7	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/64	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0
75/79	.3	1.1	.2	.2	.2	.4	.1	.3	.0	.0
78/74	3.2	8.1	1.8	1.8	1.6	2.3	1.1	3.0	.0	.2
83/69	3.4	9.6	4.9	4.9	4.3	6.4	3.9	1.8	.0	.3
86/64	1.1	1.2	1.1	1.9	4.4	6.3	3.4	.9	.0	.3
89/59	.3	.2	.2	.3	.8	3.2	2.0	.8	.0	.1
90/54	.0	.0	.0	.0	.0	.4	.7	.0	.0	.0
93/49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.4	20.1	8.2	9.1	11.7	19.2	11.2	6.9	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	79	73	73	64	57	54	49	65.9	2407
0600Z	78	74	72	69	57	53	51	65.3	1398
1201Z	85	77	74	67	58	54	48	67.0	2430
1802Z	82	79	76	68	59	55	50	67.9	1371
TOT	85	77	74	67	58	54	48	66.6	7606

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	5.9	17.6	23.3	33.8	19.4	79	391		
0600Z	.0	3.8	16.0	23.1	29.9	27.2	80	338		
1201Z	.0	6.1	16.2	22.9	30.6	22.3	79	363		
1802Z	.0	8.3	23.6	25.4	28.2	12.3	76	319		
TOT	0	83	270	333	434	289	78	1411		

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1957-1976

MAY

AREA 0011 PORTO ALEGRE
30.85 48.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 32	53 36	57 40	61 44	65 48	69 52	73 56	77 60	81 64	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.0	.1	4	.0	.2
9/10	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
7/8	.0	.0	.0	.0	.0	.3	.3	.3	.1	16	.1	.9
6	.0	.0	.0	.0	.2	.1	.4	.2	.0	13	.1	.7
5	.0	.0	.0	.0	.2	.4	.3	.3	.0	23	.0	1.4
4	.0	.0	.0	.2	.7	1.0	.6	.1	.0	45	.1	2.6
3	.0	.0	.0	.1	.6	1.0	.6	.2	.0	41	.1	2.4
2	.0	.0	.1	.3	2.1	3.4	1.3	.1	.0	122	.2	7.3
1	.0	.0	.1	.7	2.7	3.4	1.0	.1	.0	122	.2	7.8
0	.1	.0	.4	1.9	4.6	6.7	1.7	.0	.0	219	.4	13.0
-1	.0	.1	.4	1.2	4.3	3.3	1.8	.0	.0	183	.4	10.7
-2	.0	.1	.4	2.6	4.6	3.8	.6	.0	.0	199	.8	11.2
-3	.0	.0	.7	1.2	3.2	2.3	.3	.0	.0	129	.4	7.3
-4	.0	.1	.3	2.4	3.3	1.3	.2	.0	.0	137	.2	8.1
-5	.1	.1	.6	1.6	3.1	.2	.0	.0	.0	93	.1	3.3
-6	.0	.1	.3	1.3	1.4	.3	.1	.0	.0	63	.0	3.8
-7/-8	.0	.4	1.1	2.3	1.9	.2	.0	.0	.0	100	.0	6.1
-9/-10	.1	.6	1.2	1.1	.6	.1	.0	.0	.0	39	.0	3.6
-11/-13	.1	.4	1.7	.3	.2	.0	.0	.0	.0	46	.1	2.7
-14/-16	.1	.4	.1	.0	.0	.0	.0	.0	.0	9	.0	.3
-17/-19	.1	.0	.0	.1	.1	.0	.0	.0	.0	3	.0	.2
-20/-22	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	37	126	298	432	590	156	21	4	1640	3.2	1988
PCT	.4	2.3	7.7	16.2	34.1	26.3	9.3	1.3	.2	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.8	.7	.0	.0	.0	1.2
1-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	6.4	.8	.0	.0	11.9	.8	6.2	10.3	2.2	.0	.0	21.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.2	.0	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	.6
1-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.3	3.8	.2	.0	.0	10.1	.8	6.3	2.7	.1	.0	.0	10.2

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0011 PORTO ALEGRE
30.65 48.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.9	.0	.0	.0	.0	1.1
1-2	.0	1.9	.9	.0	.0	.0	2.8	.0	1.9	.0	.0	.0	.0	2.9
3-4	.2	1.9	1.9	.2	.0	.0	4.1	.1	1.3	2.9	.0	.0	.0	4.3
5-6	.0	.6	1.3	.4	.0	.0	2.3	.0	.6	1.8	.9	.0	.0	3.3
7	.0	.0	.2	.4	.0	.0	.3	.0	.2	.4	.3	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.1	.0	1.3
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.8	1.3	.1	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.2
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.2	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	4.7	1.2	.0	.0	11.4	.3	4.8	7.4	4.0	.3	.0	16.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	.4	.0	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0	.2	
1-2	.2	2.0	.2	.0	.0	.0	2.3	.0	1.3	.3	.0	.0	.0	1.7	
3-4	.0	1.9	.0	.0	.0	.0	2.2	.2	.8	1.3	.3	.0	.0	2.8	
5-6	.0	.2	.6	.6	.0	.0	1.3	.0	.2	1.3	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.4	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.8	.0	1.2	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.2	1.4	1.9	1.5	.2	10.0	.4	2.3	3.4	.3	.1	.0	6.3	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	4.3	.2	.0	.0	.0	8.9	
1-2	1.8	20.1	6.3	.0	.0	.0	28.4	
3-4	.4	19.6	15.8	1.6	.0	.0	31.4	
5-6	.0	3.0	11.4	2.4	.0	.0	16.8	
7	.0	.2	3.0	1.2	.0	.0	4.3	
8-9	.0	.0	1.4	1.2	.2	.0	2.8	
10-11	.0	.0	1.0	1.8	.2	.2	3.2	
12	.0	.0	.2	.8	.4	.0	1.4	
13-16	.0	.0	.0	1.2	1.0	.0	2.2	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	41.2	39.6	10.9	1.8	.2	100.0	493

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	2.3	10.4	12.9	5.3	2.0	.4	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	368	3
6-7	.1	1.2	8.0	11.0	5.5	2.6	1.2	.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	3
8-9	.0	.3	1.3	3.7	3.9	2.5	1.1	.6	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	182	7
10-11	.0	.3	.4	.7	.8	.7	.7	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.4	.3	.4	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	16	8
>13	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.8	1.6	3.9	2.6	1.2	1.5	.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	143	4
TOTAL	4.8	147	290	234	149	82	40	27	28	7	3	0	0	0	0	0	0	0	0	1072	5
PCT	4.2	13.7	27.1	23.7	13.9	7.6	3.7	2.3	2.6	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1960-1973AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.4	.7	1.2	.0	.0	.0	.0	4.3	2.0	2.6	3.0	.0	.6	.0	85.6
NE	3.6	.9	.8	.0	.0	.0	.2	3.4	2.8	1.2	2.9	.3	1.6	.0	86.2
E	4.3	3.2	3.2	.0	.0	.0	.4	11.2	5.4	.0	.7	.0	1.4	.7	80.5
SE	9.9	5.6	2.6	.0	.0	.0	.3	18.9	4.7	3.1	1.2	.0	.0	.0	72.5
S	4.3	2.3	.6	.0	.0	.0	.9	6.3	2.9	3.6	.9	.0	.0	.0	84.9
SW	3.0	1.9	.9	.0	.0	.0	.0	3.3	5.1	.3	2.7	.0	.2	.0	86.2
W	3.1	1.2	.7	.0	.0	.0	.0	5.1	1.5	.0	2.1	.0	.3	.0	91.0
NW	4.9	.0	.9	.0	.0	.0	.0	3.8	2.2	1.3	6.3	.0	.0	.0	84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	7.1	.0	89.3
TOT PCT	3.6	1.7	1.2	.0	.0	.0	.2	6.6	3.2	1.4	2.9	.1	.7	.1	85.0
TOT OBS:	1627														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	GRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	3.8	1.4	.9	.0	.0	.0	.2	6.4	3.1	2.8	3.3	.0	.7	.2	89.6
0600Z	4.9	1.3	1.3	.0	.0	.0	.0	7.6	3.7	2.7	2.7	.0	.7	.0	82.6
1200Z	2.7	1.9	1.8	.0	.0	.0	.2	3.6	2.3	.0	3.2	.2	1.1	.0	87.4
1800Z	4.1	3.1	.3	.0	.0	.0	.3	8.0	3.4	.3	2.3	.0	.3	.0	86.0
TOT PCT TOT OBS:	3.4	1.7	1.2	.0	.0	.0	.2	6.9	3.1	1.4	2.9	.1	.7	.1	84.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							40+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	06	12	18	21		
N	.7	6.2	6.7	2.0	.2	.0		15.7	13.1	14.7	15.1	10.1	14.1	17.2	14.6	14.2	13.6
NE	.6	6.8	8.2	1.7	.2	.0		17.3	13.0	17.8	17.3	17.9	20.3	16.3	16.0	18.6	35.7
E	.3	3.3	3.1	.3	.2	.0		6.6	11.8	8.1	7.6	6.6	10.3	6.0	3.1	6.2	3.6
SE	.7	3.2	3.0	.3	.1	.0		6.6	11.1	7.7	7.9	6.3	2.6	3.9	3.3	6.6	7.1
S	.6	4.2	3.3	.9	.2	.1		9.3	12.3	9.9	9.0	9.7	10.3	9.3	9.3	9.4	13.6
SW	.0	3.3	7.7	4.3	1.2	.1		19.3	16.7	18.3	19.2	18.1	20.3	19.6	20.7	21.3	10.7
W	.3	3.3	3.8	3.2	1.6	.1		12.7	18.8	12.0	12.1	11.3	13.4	13.3	14.0	13.3	8.6
NW	.3	4.1	3.0	1.0	.3	.1		8.9	12.8	7.9	8.2	6.7	6.4	8.8	11.3	8.3	4.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0		3.6	3.4	3.2	.0	3.2	3.1	1.6	2.9
TOT OBS	623	2714	2761	1861	293	33	7485		15.8	1333	992	1336	39	1323	1133	1292	35
TOT PCT	8.3	36.3	36.9	14.2	3.9	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40							00	06	12	18	21		
N	3.1	7.7	4.3	.0	.0			15.7	13.1	14.9	18.0	16.0	14.2				
NE	3.3	8.9	4.6	.0	.1			17.3	13.0	17.7	18.0	16.2	19.1				
E	1.9	3.2	1.1	.3	.0			6.6	11.8	7.9	6.7	3.6	6.2				
SE	2.0	3.4	.9	.2	.1			6.6	11.1	7.8	6.2	3.7	6.7				
S	2.3	4.6	1.9	.4	.1			9.3	12.3	9.3	9.7	9.3	9.3				
SW	2.9	7.6	6.1	2.4	.3			19.3	16.7	18.7	18.2	20.1	21.2				
W	1.9	4.2	3.6	2.1	.9			12.7	18.8	12.0	11.4	13.7	13.3				
NW	2.3	4.3	1.7	.3	.2			8.9	12.8	8.0	8.7	10.1	8.2				
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0				
CALM	3.0							3.0	.0	3.5	3.1	3.2	1.7				
TOT OBS	1710	3283	1811	342	139	7485			13.8	2323	1373	2438	1327				
TOT PCT	22.8	43.9	24.2	7.2	1.9			100.0		100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1860-1975

JUNE

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			45+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.5	6.7	37.0	35.1	12.2	3.9	.5	13.4	100.0	2323
06009	3.1	5.7	38.5	35.3	14.1	3.3	.2	13.4	100.0	1379
12015	3.2	4.1	34.5	38.9	14.7	4.2	.5	14.2	100.0	2488
18021	1.7	4.8	36.1	38.0	14.9	4.0	.5	14.2	100.0	1327
TOT	235	398	2714	2741	1061	293	33	13.8		7489
PCT	3.0	5.3	36.3	36.9	14.2	3.9	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OVER	TOTAL CLOUD OBS	MEAN CLOUD COVER
M	7.3	3.4	4.7	3.8		3.9
NE	8.1	3.1	6.0	4.3		4.1
E	2.0	1.0	2.0	2.6		3.1
SE	.9	.8	1.6	2.3		3.7
S	3.6	1.2	3.1	3.1		4.7
SW	4.7	2.4	5.0	3.5		4.3
W	2.8	1.9	2.3	2.8		4.6
NW	2.2	.9	1.8	1.4		4.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.4	.2		2.7
TOT OBS	379	186	313	283	1161	4.4
TOT PCT	32.6	16.0	27.0	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

	000	100	300	600	1000	2000	3000	5000	6500	8000+	NM <3/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
M	.4	.0	.5	.6	1.9	.8	.7	.1	.1	.1	14.4	
NE	.3	.1	.2	1.1	1.8	1.0	.9	.3	.0	.0	13.4	
E	.1	.0	.2	.4	1.1	.7	.8	.2	.2	.0	4.1	
SE	.2	.0	.3	.6	1.4	.2	.5	.2	.1	.0	2.4	
S	.1	.0	.5	1.0	1.2	.8	.5	.2	.0	.1	6.5	
SW	.1	.0	.5	1.7	2.2	.8	1.1	.3	.0	.1	9.9	
W	.0	.1	.2	1.1	1.7	.5	.3	.1	.0	.0	5.6	
NW	.2	.0	.0	.3	.9	.2	.5	.3	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	1.8	
TOT OBS	19	2	24	79	147	39	69	20	5	7	787	1161
TOT PCT	1.6	.2	2.1	6.8	12.7	5.1	5.3	1.7	.4	.6	63.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	< OR >10	< OR >8	< OR >6	< OR >4	< OR >2 1/2	< OR >1 1/2	< OR >1 1/4	< OR >1 1/2	< OR >1 1/4
< OR >4500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
< OR >3000	2.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
< OR >2500	3.9	6.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2
< OR >2000	9.4	12.7	13.2	13.2	13.2	13.2	13.2	13.2	13.2
< OR >1000	16.8	24.7	26.0	26.0	26.1	26.1	26.1	26.1	26.1
< OR >600	22.8	30.6	32.3	32.6	32.7	32.9	32.9	32.9	32.9
< OR >300	23.2	32.3	34.4	34.6	34.6	34.8	34.9	34.9	34.9
< OR >150	23.3	32.4	34.6	34.7	34.8	35.0	35.1	35.1	35.1
< OR >0	23.5	33.3	35.3	35.7	35.7	36.3	36.6	36.6	36.6
TOTAL	276	391	417	419	420	426	430	432	432

TOTAL NUMBER OF OBS: 1175

PCT FREQ NM <3/8: 63.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	21.2	12.5	11.3	9.9	8.2	6.1	6.5	6.9	10.1	1.2	1292

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1960-1975

JUNE

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.4	.4	.1	.0	.0	.1	.1	.1	.0	.0	1.2	
	TOT %	.4	.4	.1	.0	.0	.2	.1	.1	.0	.0	1.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.5	
2<5	PCP	.1	.2	.3	.2	.2	.1	.2	.1	.0	.0	1.4	
	NO PCP	.2	.3	.2	.1	.1	.0	.3	.1	.0	.1	1.0	
	TOT %	.4	.5	.5	.3	.3	.1	.5	.2	.0	.1	2.4	
5<10	PCP	.6	.6	.5	.7	.4	.4	.1	.3	.0	.0	3.6	
	NO PCP	4.6	3.2	2.8	1.6	1.3	4.2	2.9	1.9	.0	.1	24.4	
	TOT %	5.2	3.8	3.3	2.3	1.7	4.6	3.0	2.2	.0	.1	28.0	
10+	PCP	.0	.2	.1	.3	.2	.3	.1	.0	.0	.0	1.2	
	NO PCP	19.0	13.3	4.7	3.7	7.3	11.6	6.3	4.4	.0	1.3	69.9	
	TOT %	19.0	13.7	4.8	4.0	7.7	11.9	6.4	4.4	.0	1.3	71.1	
TOT OBS		1024											
TOT PCT		19.0	20.3	8.5	6.3	9.9	17.3	10.3	8.9	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.3	.3	.0	.0	.0	.1	.1	.1	.0	.1	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.1	.1	.3	.1	.1	.1	.1	.1	.0	.1	1.0	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.3	.1	.1	.1	.2	.1	.1	.0	.0	1.3	
	11-21	.2	.4	.3	.1	.1	.0	.1	.1	.0	.0	1.3	
	22+	.2	.1	.1	.2	.1	.3	.2	.1	.0	.0	1.3	
	TOT %	.7	.8	.5	.4	.3	.6	.4	.4	.0	.1	4.3	
5<10	0-3	.1	.1	.1	.0	.1	.1	.1	.1	.0	.3	1.1	
	4-10	1.3	1.3	.8	.8	.8	1.0	.3	.8	.0	.0	7.3	
	11-21	1.6	2.0	1.1	.9	.9	1.4	.6	.6	.0	.0	9.0	
	22+	.8	.7	.3	.2	.2	.8	.9	.4	.0	.0	4.2	
	TOT %	3.8	4.3	2.2	1.9	2.0	3.2	2.1	1.9	.0	.3	21.7	
10+	0-3	.3	.3	.2	.4	.4	.4	.3	.3	.0	2.2	5.6	
	4-10	3.3	3.3	2.8	2.1	2.1	3.9	2.6	3.4	.0	.0	28.8	
	11-21	3.3	6.3	1.1	1.2	2.9	6.1	2.9	2.0	.0	.0	28.0	
	22+	1.2	1.1	.8	.2	.6	3.2	2.3	.4	.0	.0	9.3	
	TOT %	12.6	13.3	4.2	3.9	7.0	13.6	8.4	6.3	.0	2.2	71.7	
TOT OBS		3686											
TOT PCT		17.4	18.7	7.3	6.3	9.4	18.1	11.1	8.8	.0	2.7	100.0	

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1880-1973

JUNE

AREA 0011 PORTO ALFRE
30.63 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.7	0.8	13.6	3.1	4.4	1.4	.7	1.0	35.9	64.1	293				
0600	1.9	.3	2.2	5.4	10.8	3.2	4.4	.3	.0	1.0	29.3	70.7	313				
1200	1.3	.3	2.6	6.3	11.9	7.1	3.4	1.6	.6	.3	38.1	61.9	310				
1800	1.0	.0	2.3	5.3	13.2	6.6	3.9	3.6	.3	.0	38.3	61.7	303				
TOT	20	2	24	79	191	61	63	21	3	7	433	790	1023				
PCT	1.6	.2	2.0	6.3	12.3	5.0	5.2	1.7	.4	.6	35.4	64.6	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.9	.3	1.4	4.2	23.1	70.2	1096
0600	1.3	.4	.7	3.3	21.6	70.7	767
1200	.9	.4	.9	3.4	21.7	72.6	1110
1800	.9	.1	.9	4.3	19.9	73.6	739
TOT	37	12	37	138	809	2667	3780
PCT	1.0	.3	1.0	4.2	21.7	71.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<1/2 <500	<1 <600	<1000 <1	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	2.3	3.2	13.6	23.9	62.3	280
0600	2.0	3.0	13.2	19.1	67.7	303
1200	1.3	4.7	12.7	27.0	60.3	300
1800	1.0	4.1	11.8	28.8	59.6	292
TOT	20	30	130	290	733	1173
PCT	1.7	4.3	12.8	24.7	62.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.1	.1	.0	.0	2	.2
75/79	.0	.0	.1	.0	.2	.2	.0	.0	9	.7
70/74	.0	.0	.0	.3	1.2	2.3	4.2	2.0	121	10.0
65/69	.0	.0	.1	.7	7.9	6.3	12.3	9.1	393	32.7
60/64	.0	.0	.4	.9	6.3	7.7	9.9	9.2	415	34.4
55/59	.0	.0	.2	.8	2.2	6.0	6.0	2.4	212	17.3
50/54	.0	.0	.1	.1	1.0	1.3	1.4	.3	53	4.4
45/49	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	.0	.0	10	34	179	291	416	280	1208	100.0
PCT	.0	.0	.8	2.8	14.8	24.1	34.3	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
75/79	.2	.1	.1	.1	.0	.1	.0	.1	.0	.0
70/74	4.1	3.2	.3	.4	.3	.3	.0	1.0	.0	.1
65/69	8.0	10.0	2.8	2.3	2.8	2.9	1.3	2.2	.0	.4
60/64	4.9	4.9	3.9	3.2	4.8	6.3	3.7	1.8	.0	.8
55/59	.6	1.3	.9	1.2	2.2	0.2	4.0	1.0	.0	.1
50/54	.1	.0	.1	.1	.6	1.7	1.2	.3	.0	.2
45/49	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
TOTAL	17.9	19.0	8.4	7.3	10.7	17.7	10.3	6.4	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	75%	50%	25%	MIN	MEAN	TOTAL OBS
0000	78	72	70	63	54	30	45	62.3	2720
0600	74	72	70	53	54	30	47	62.2	1376
1200	81	74	72	64	54	30	46	63.4	2421
1800	82	75	72	64	53	31	48	64.0	1301
TOT	82	74	71	63	54	30	45	63.0	7418

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.9	12.7	23.2	37.3	22.9	81	332		
0600	.0	1.9	12.0	22.7	35.3	28.2	82	309		
1200	.0	2.3	16.3	23.4	33.1	24.7	81	320		
1800	.0	6.6	14.8	26.1	30.5	18.0	78	272		
TOT	0	43	182	293	422	291	81	1233		

JUNE

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1960-1973

TABLE 17

AREA 0011 PORTO ALEGRE
30.65 49.0WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 40	49 32	53 36	57 40	61 44	65 48	69 72	73 76	77 80	81 84	TOT	M FOG	NO FUS
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
11/13	.0	.0	.0	.1	.3	.0	.0	.0	.1	.0	7	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.1
7/8	.0	.0	.0	.0	.1	.1	.1	.3	.1	.0	11	.0	.8
6	.0	.0	.0	.0	.3	.2	.2	.1	.0	.1	12	.1	.8
5	.0	.0	.0	.1	.7	.5	.6	.3	.0	.0	31	.1	2.1
4	.0	.0	.1	.1	1.1	1.6	.8	.1	.1	.0	56	.1	3.7
3	.0	.0	.1	.2	1.0	1.9	.8	.1	.0	.0	59	.1	4.0
2	.0	.0	.0	.6	2.8	3.1	1.8	.3	.0	.0	125	.1	8.9
1	.0	.0	.1	1.1	2.0	5.3	1.8	.1	.0	.0	120	.2	8.1
0	.0	.0	.3	.8	3.2	3.9	2.6	.0	.1	.0	160	.3	10.6
-1	.0	.0	.1	1.3	3.0	3.7	1.7	.1	.0	.0	147	.3	9.8
-2	.0	.0	.6	1.8	4.0	2.8	1.8	.3	.0	.0	162	.3	10.9
-3	.0	.0	.6	1.9	2.2	2.2	.6	.0	.0	.0	108	.2	7.3
-4	.0	.1	.3	2.0	3.3	1.3	.3	.0	.0	.0	108	.1	7.2
-5	.0	.1	.8	1.2	2.0	1.3	.2	.1	.0	.0	83	.1	3.7
-6	.0	.0	.2	1.2	1.5	1.0	.1	.0	.0	.0	58	.1	4.0
-7/-8	.0	.2	.9	2.1	3.1	.8	.1	.0	.0	.0	91	.1	6.2
-9/-10	.1	.3	.6	1.2	1.3	.3	.0	.0	.0	.0	34	.0	3.7
-11/-13	.1	.1	.3	1.3	.6	.1	.0	.0	.0	.0	39	.0	2.7
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	4	.0	.3
-17/-19	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	2	12	83	294	454	406	193	28	9	2	1443	2.0	1487
PCT	.1	.8	3.9	17.6	31.3	28.1	13.5	1.9	.3	.1	100.0	2.0	97.3

PERIOD: (OVER-ALL) 1960-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.9	.8	.0	.0	.0	2.1	.0	3.9	.2	.0	.0	.0	1.1
1-2	.2	.8	1.7	.0	.0	.0	1.8	.2	3.0	1.3	.0	.0	.0	4.6
3-4	.0	1.7	3.2	.2	.0	.0	7.1	.0	2.4	3.3	.0	.0	.0	3.9
5-6	.0	.0	2.1	.2	.0	.0	2.3	.0	.0	3.3	1.2	.0	.0	4.7
7	.0	.0	.7	1.2	.0	.0	1.9	.0	.0	1.2	1.0	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.4	.0	.0	.7
10-11	.0	.0	.0	.2	.2	.0	.9	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.1	11.0	3.3	.2	.0	19.1	.2	6.2	10.3	3.1	.0	.0	19.8

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.7	.8	.0	.0	.0	.9	.1	.3	.2	.0	.0	.0	.7
1-2	.0	1.5	.2	.0	.0	.0	1.7	.2	1.8	.0	.0	.0	.0	1.1
3-4	.0	1.0	2.5	.0	.0	.0	3.5	.0	1.3	1.6	.0	.0	.0	3.1
5-6	.0	.0	.7	.8	.0	.0	1.2	.0	.6	.3	.0	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	3.7	.5	.0	.0	7.3	.4	3.2	3.1	.0	.0	.0	6.7

PERIOD: (OVER-ALL) 1969-1975

JUNE

AREA 0011 PORTO ALEGRE
20.05 49.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
0-1	.4	.2	.0	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.1	
1-2	.0	1.8	1.4	.0	.0	.0	2.1	.0	1.8	.4	.0	.0	.0	2.0	
3-4	.0	.7	1.8	.0	.0	.0	2.3	.0	.8	3.8	.3	.0	.0	4.7	
5-6	.0	.4	1.3	.0	.0	.0	1.7	.0	.3	3.9	.7	.0	.0	5.0	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.7	1.2	.0	.0	2.9	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.6	.0	.0	1.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	2.9	3.7	.0	.0	.0	7.3	.1	2.6	10.6	4.2	.2	.2	17.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
0-1	.2	.7	.0	.0	.0	.0	.9	.8	.3	.0	.0	.0	.0	1.1	
1-2	.0	1.2	1.4	.0	.0	.0	1.6	.0	.7	.9	.0	.0	.0	1.7	
3-4	.0	.4	1.8	.7	.0	.0	2.7	.0	.4	.6	.1	.0	.0	1.1	
5-6	.0	.0	.4	.9	.2	.0	1.6	.0	.0	.3	.1	.0	.0	.4	
7	.0	.2	.6	.7	.0	.0	1.3	.0	.0	.1	.6	.0	.0	.6	
8-9	.0	.0	.2	.9	.2	.0	1.4	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.2	1.4	.0	.0	1.6	.0	.0	.0	.1	.2	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.3	.0	.7	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.6	3.3	4.8	1.0	.0	11.9	.8	1.7	1.9	1.1	.2	.0	9.8	99.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
0-1	6.4	5.4	.3	.0	.0	.0	12.3	
1-2	1.3	10.8	5.4	.0	.0	.0	17.7	
3-4	.0	8.6	20.2	1.2	.0	.0	30.0	
5-6	.0	1.2	12.6	3.7	.2	.0	17.7	
7	.0	.2	3.2	4.7	.0	.0	10.1	
8-9	.0	.0	2.0	3.2	.2	.0	5.4	
10-11	.0	.0	1.2	2.2	.3	.0	3.9	
12	.0	.0	.0	.7	.2	.0	1.0	
13-16	.0	.0	.0	1.0	.3	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.2	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	26.4	47.0	16.7	1.7	.2	100.0	406

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	3.2	7.7	13.8	5.6	2.0	.8	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	4
6-7	.1	1.0	7.9	7.7	6.2	3.0	1.3	.7	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	250	6
8-9	.1	.2	2.4	4.0	4.7	2.6	.1	.7	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	148	7
10-11	.0	.6	.3	.7	1.3	.9	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
12-13	.0	.0	1.0	.8	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	6
13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	8	17
14-15	2.6	2.0	1.9	2.6	1.0	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
TOTAL	99	102	242	169	139	71	46	22	15	2	2	2	2	1	0	0	0	0	0	886	3
PCT	6.0	11.3	27.3	21.3	13.7	6.0	5.2	2.5	1.7	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975

JULY

TABLE 1

AREA 0011 PORTO ALEGRE
30.65 49.04

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.9	.6	.0	.0	.0	.0	.0	2.4	1.0	2.8	6.7	.6	2.1	.0	84.3
NE	1.2	1.2	.5	.0	.0	.0	.0	2.9	1.2	1.5	5.1	.3	2.8	.0	86.4
E	3.2	3.3	3.5	.0	.0	.0	.0	11.2	1.2	.0	3.3	.6	.6	.0	83.1
SE	11.6	2.4	2.4	.0	.0	.0	.0	16.4	1.4	.0	2.4	.0	.0	.0	79.7
S	10.4	.9	.8	.0	.0	.0	.0	12.1	3.6	1.0	3.2	.5	.0	.0	79.6
SW	3.0	2.1	1.4	.0	.0	.0	.0	6.5	2.3	1.4	1.9	.0	.4	.0	87.5
W	.3	2.6	1.0	.0	.0	.0	.0	3.9	.4	.0	1.4	.0	1.4	.0	92.8
NW	4.7	1.2	.3	.0	.0	.0	.0	6.2	2.4	1.5	3.6	.0	2.4	.0	83.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.0	3.2	.0	.0	.0	.0	3.2	.0	6.5	12.9	.0	3.2	.0	74.2
TOT PCT	3.6	1.8	1.0	.0	.0	.0	.0	6.0	1.6	1.4	4.2	.3	1.3	.0	85.2
TOT OBS:	1878														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	3.8	1.4	1.2	.0	.0	.0	.0	6.2	1.2	2.8	4.2	.2	1.0	.0	84.9
0600Z	4.4	1.1	.4	.0	.0	.0	.0	6.0	1.6	2.9	3.8	.0	.9	.0	85.1
1200Z	3.1	1.6	1.4	.0	.0	.0	.0	3.9	1.4	.4	3.1	.4	2.0	.0	85.0
1800Z	2.8	2.1	.9	.0	.0	.0	.0	5.8	2.1	.0	3.9	.4	1.9	.0	85.9
TOT PCT	3.3	1.6	1.0	.0	.0	.0	.0	6.0	1.6	1.5	4.3	.3	1.3	.0	85.2
TOT OBS:	1929														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	3.8	7.0	2.5	.3	.0		16.4	13.9		14.4	16.4	16.4	10.9	18.3	17.3	15.7	16.7
NE	1.0	7.9	10.3	2.5	.2	.0		21.9	13.3		22.3	23.4	22.7	29.9	20.7	19.0	22.8	17.7
E	.4	3.3	2.4	.5	.1	.0		7.6	11.7		8.0	6.3	6.4	11.4	6.1	6.3	6.9	4.3
SE	.5	3.1	2.9	.7	.7	.0		7.3	12.6		7.4	8.0	7.2	3.3	7.6	7.1	7.0	2.1
S	.6	3.9	3.6	1.0	.2	.0		9.2	12.7		11.7	9.3	8.8	8.7	7.6	8.3	9.3	15.3
SW	.8	3.0	6.8	4.6	1.2	.3		18.3	17.6		17.5	17.0	16.3	14.1	18.7	18.6	19.2	20.3
W	.4	2.8	3.1	2.9	1.3	.4		10.9	20.3		9.5	9.3	10.2	14.1	12.3	12.9	10.5	15.1
NW	.5	2.9	3.4	.7	.8	.0		6.9	13.3		3.6	6.6	7.4	5.4	6.6	6.5	6.7	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		3.7	1.6	2.6	2.2	2.0	1.6	1.6	2.1
TOT OBS	547	2934	2789	1137	270	53	7324		14.4		1306	172	1291	46	1292	1142	1267	48
TOT PCT	7.5	34.6	38.0	13.5	3.7	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	09	15
N	2.9	7.9	4.4	1.1	.0			16.4	13.9		15.2	16.2	17.9	15.7
NE	3.5	11.4	6.2	.8	.0			21.9	13.3		22.6	22.9	20.0	22.6
E	1.7	3.5	1.2	.3	.0			8.8	11.7		7.3	6.6	6.2	6.9
SE	1.6	3.6	1.5	.3	.1			7.3	12.6		7.7	7.1	7.4	6.8
S	2.3	4.3	2.2	.4	.1			9.2	12.7		10.7	8.8	8.0	9.5
SW	2.4	6.3	6.2	2.7	.6			18.3	17.6		17.3	18.2	18.6	19.2
W	1.5	3.3	3.1	2.3	.8			10.9	20.3		9.4	10.4	12.6	10.7
NW	1.7	3.2	1.5	.3	.1			6.9	13.3		6.3	7.3	7.5	6.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.4							2.4	.0		3.4	2.3	1.6	1.6
TOT OBS	1646	3200	1915	617	136	7324			14.4		2238	1337	2434	1315
TOT PCT	20.0	43.7	26.1	8.4	1.7			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975

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30.83 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.4	5.5	35.1	36.8	15.0	3.6	.7	14.0	100.0	2238
0600Z	2.5	5.0	33.4	39.8	15.2	3.7	.5	14.4	100.0	1937
1200Z	1.8	4.8	34.6	37.7	16.3	4.0	.9	14.8	100.0	2434
1800Z	1.9	5.1	34.9	38.9	15.4	3.3	.6	14.3	100.0	1915
TOT	1.77	3.70	2534	2733	1137	270	53	14.4		7324
PCT	2.4	5.1	34.6	38.0	15.5	3.7	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	6.8	2.9	3.8	3.0		3.8
NE	12.8	2.8	6.1	4.2		3.5
E	1.7	.8	1.7	2.1		4.9
SE	.6	.4	1.3	2.7		6.0
S	3.1	1.3	3.3	2.3		4.5
SW	6.1	3.9	5.4	4.2		4.4
W	3.0	1.2	4.2	1.1		4.4
NW	1.0	1.4	1.2	1.0		4.6
VAR	.0	.0	.0	.0		.0
U.A.M.	.0	.2	.3	.3		3.5
TOT OBS	472	200	342	282	1316	4.2
TOT PCT	35.9	15.2	27.5	21.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.6	.0	.2	.8	1.8	.7	.5	.4	.0	.2	11.2	
NE	.9	.0	.2	.9	2.2	1.0	1.1	.5	.2	.1	18.6	
E	.2	.0	.2	.4	1.0	.3	.4	.2	.0	.1	3.6	
SE	.2	.0	.1	.6	1.2	.7	.2	.1	.0	.1	2.2	
S	.2	.0	.3	1.0	1.3	.5	.2	.0	.0	.1	6.0	
SW	.2	.0	.3	1.7	3.0	1.1	.9	.5	.2	.1	11.9	
W	.0	.0	.0	.9	1.3	.8	.9	.2	.0	.1	3.3	
NW	.1	.1	.0	.5	.3	.5	.1	.0	.0	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
U.A.M.	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	32	1	18	92	168	73	84	22	4	8	830	1316
TOT PCT	2.4	.1	1.4	7.0	12.8	5.5	5.0	1.7	.3	.6	63.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >3000	= OR >0
= OR >4500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3000	2.0	2.7	2.9	2.9	2.9	2.9	2.9	.9
= OR >2500	3.9	7.7	8.0	8.0	8.0	8.0	8.0	4.0
= OR >2000	9.8	13.1	13.6	13.7	13.7	13.7	13.7	13.7
= OR >1000	18.0	24.8	26.1	26.3	26.3	26.3	26.3	26.3
= OR >600	21.8	31.1	33.1	33.3	33.3	33.4	33.4	33.4
= OR >300	22.4	32.3	34.4	34.6	34.6	34.7	34.7	34.7
= OR >150	22.4	32.3	34.3	34.7	34.7	34.8	34.8	34.8
= OR > 0	22.7	32.6	35.3	35.6	35.7	36.8	37.1	37.3
TOTAL	302	437	470	473	476	490	495	497

TOTAL NUMBER OF OBS: 1333

PCT FREQ NH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	9	TOTAL
										OBS
22.8	11.6	12.4	8.4	6.9	6.2	7.3	8.3	14.5	1.9	1446

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1894-1975

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30.65 49.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.9	.7	.0	.1	.1	.1	.2	.1	.0	.1	1.0	
	TOT S	.5	.7	.0	.1	.2	.1	.0	.1	.0	.1	2.0	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.0	.0	.0	.0	.1	.0	.0	.1	.4	
	TOT S	.1	.2	.1	.0	.0	.0	.1	.0	.0	.1	.5	
1<2	PCP	.0	.1	.0	.0	.1	.2	.0	.1	.0	.0	.3	
	NO PCP	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.5	
	TOT S	.0	.1	.0	.1	.2	.2	.0	.1	.0	.0	.8	
2<5	PCP	.1	.1	.1	.4	.2	.2	.0	.0	.0	.0	1.2	
	NO PCP	.1	.5	.2	.1	.1	.5	.1	.1	.0	.1	1.7	
	TOT S	.5	.6	.3	.5	.3	.7	.1	.1	.0	.1	2.9	
5<10	PCP	.3	.3	.5	.3	.7	.7	.2	.3	.0	.0	3.5	
	NO PCP	5.8	7.5	4.5	1.3	2.5	3.0	2.9	1.2	.0	.0	28.2	
	TOT S	6.2	8.0	5.0	1.6	3.1	4.5	2.3	1.5	.0	.0	29.7	
10+	PCP	.0	.1	.1	.1	.2	.2	.1	.1	.0	.0	.4	
	NO PCP	10.9	15.3	4.3	3.1	6.3	13.1	6.7	2.9	.0	.7	69.6	
	TOT S	10.9	15.3	4.5	3.2	6.5	13.3	6.8	3.0	.0	.7	69.4	
TOT OBS													1877
TOT PCT													18.0 25.1 6.9 3.5 10.4 18.8 9.2 4.5 .0 1.7 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	
	4-10	.3	.3	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.5	.5	.1	.1	.1	.1	.0	.1	.0	.1	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT S	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	11-21	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
	TOT S	.2	.3	.1	.1	.3	.2	.0	.0	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	
	4-10	.1	.2	.1	.1	.2	.1	.1	.2	.0	.0	1.1	
	11-21	.2	.2	.1	.3	.2	.3	.1	.1	.0	.0	1.5	
	22+	.1	.0	.1	.1	.1	.4	.2	.0	.0	.0	.9	
	TOT S	.4	.5	.3	.3	.3	.8	.4	.3	.0	.1	3.8	
5<10	0-3	.3	.3	.1	.1	.2	.1	.0	.1	.0	.5	1.5	
	4-10	1.3	1.7	.9	.8	1.1	1.2	.6	.7	.0	.0	8.3	
	11-21	2.9	3.3	.5	.5	.8	1.4	.6	.6	.0	.0	10.1	
	22+	.0	.0	.2	.2	.3	1.2	.9	.1	.0	.0	4.6	
	TOT S	4.7	6.2	1.6	1.6	2.3	4.0	2.1	1.3	.0	.5	24.4	
10+	0-3	.5	.7	.4	.3	.3	.4	.3	.3	.0	1.6	5.0	
	4-10	4.3	6.4	2.4	2.3	2.7	3.3	2.3	1.8	.0	.0	25.7	
	11-21	4.9	6.8	1.3	1.4	2.5	6.2	2.7	1.0	.0	.0	26.7	
	22+	1.2	1.4	.2	.2	.6	4.4	2.9	.3	.0	.0	11.2	
	TOT S	10.9	15.2	4.2	4.3	6.1	14.3	8.2	3.5	.0	1.6	68.6	
TOT OBS													2993
TOT PCT													16.7 22.7 6.3 6.5 9.4 19.7 10.9 5.3 .0 2.3 100.0

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PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	3.1	.0	.6	6.7	10.1	5.1	4.2	1.7	.0	1.1	32.6	67.4	356				
06009	1.9	.0	1.9	5.0	12.4	2.8	4.7	.9	.6	.3	30.4	69.6	322				
12015	2.6	.0	1.7	8.6	12.4	6.9	6.3	1.7	.6	.6	41.4	58.6	346				
18021	1.9	.3	1.1	6.5	13.3	7.3	4.6	2.2	.3	.3	38.6	61.4	370				
TOT	93	2	18	94	169	78	69	23	6	9	501	895	1396				
PCT	2.4	.1	1.3	6.7	12.1	5.6	4.9	1.6	.4	.6	35.9	64.1	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	1.3	.6	1.4	3.3	26.3	67.1	1207
06009	1.3	.1	1.2	4.4	23.3	67.4	814
12015	1.8	.7	.8	4.4	23.3	69.0	1202
18021	1.8	.4	1.3	3.0	23.3	70.1	824
TOT	65	19	48	154	993	2766	4047
PCT	1.6	.5	1.2	3.8	24.6	68.3	100.0

TABLE 12

CUMULATIVE PCT FREE OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<1000 <1	<1000 <5	<1000 <10	NM <5/8 AND 3+	TOTAL OBS
00003	3.3	3.9	12.5	22.4	65.1	335
06009	2.0	4.0	11.2	21.1	67.7	303
12015	2.7	4.7	14.3	26.7	57.0	337
18021	2.0	3.9	12.3	28.2	59.3	358
TOT	23	35	175	330	828	1333
PCT	2.5	4.1	13.1	24.8	62.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
70/76	.0	.0	.0	.1	.2	1.2	1.0	1.1	31	3.6
60/69	.0	.0	.1	.2	1.4	3.0	11.1	7.1	350	24.8
50/64	.0	.0	.1	1.6	4.9	6.8	14.0	11.7	545	38.7
40/59	.0	.0	.1	1.6	3.8	3.7	6.7	5.4	341	24.2
30/34	.0	.0	.0	.3	1.9	1.7	3.1	.0	119	7.6
20/49	.0	.0	.1	.0	.1	.1	.1	.4	11	.6
TOT	9	3	9	30	169	290	307	388	1409	100.0
PCT	.0	.0	.4	3.9	12.0	20.6	36.0	27.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
70/76	1.4	.8	.3	.1	.2	.6	.3	.5	.0	.1
60/69	8.6	9.3	1.3	1.1	.9	1.2	1.0	1.1	.0	.3
50/64	3.9	12.0	4.3	2.9	3.5	3.9	2.0	1.7	.0	.6
40/59	1.7	3.1	1.3	1.0	3.7	8.0	3.8	1.0	.0	.3
30/34	.0	.1	.1	.3	3.7	1.7	.4	.0	.0	.1
20/49	.0	.0	.0	.0	.3	.2	.3	.0	.0	.0
TOT	17.6	25.2	7.4	5.9	9.9	19.1	9.0	4.6	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	71	68	61	51	48	43	60.3	2245
06009	80	78	68	60	50	47	43	59.9	1341
12015	82	73	70	62	52	47	40	61.4	2407
18021	74	73	71	62	52	49	45	62.0	1301
TOT	82	72	69	61	51	46	47	60.9	7294

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.0	10.7	21.8	34.0	27.3	82	403		403
06009	.0	3.3	10.8	19.6	38.3	30.9	83	323		323
12015	.0	3.8	11.9	18.9	38.1	29.4	82	371		371
18021	.0	4.4	14.6	22.3	35.1	23.6	80	342		342
TOT	0	36	173	297	320	403	92	1449		1449

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PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1854-1975AREA 0011 PORTO ALEGRE
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	TOT	N PDG	NO PDG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.1
9/10	.0	.0	.0	.0	.1	.4	.0	.1	.0	.0	10	.0	.6
7/8	.0	.1	.1	.2	.2	1.0	.2	.1	.0	.0	31	.1	1.7
6	.0	.0	.1	.1	.5	.6	.3	.1	.0	.0	24	.0	1.3
5	.0	.0	.2	.2	.8	1.1	.6	.1	.0	.0	31	.1	2.9
4	.0	.0	.4	.4	.8	2.7	1.3	.8	.1	.0	106	.2	6.1
3	.0	.0	.4	1.3	2.6	1.4	.1	.1	.0	.0	103	.2	5.8
2	.0	.1	.5	2.4	2.3	2.8	.7	.1	.1	.0	134	.2	8.8
1	.0	.1	.5	2.3	3.2	2.6	.6	.0	.0	.0	138	.7	8.6
0	.0	.3	.7	3.1	3.8	2.4	.9	.0	.0	.0	190	.6	10.4
-1	.0	.1	1.0	2.2	2.2	2.2	.7	.1	.0	.0	144	.8	7.7
-2	.0	.2	1.2	2.3	2.3	2.2	.2	.0	.0	.0	150	.5	8.3
-3	.0	.2	.7	.9	1.8	1.4	.3	.0	.0	.0	89	.2	3.1
-4	.0	.4	1.4	1.3	2.2	.9	.1	.0	.0	.0	109	.1	6.3
-5	.1	.4	1.0	.9	1.9	.3	.1	.0	.0	.0	83	.2	4.6
-6	.1	.2	.8	1.0	1.2	.4	.0	.0	.0	.0	52	.1	3.6
-7/-8	.2	.3	1.4	1.8	1.3	.1	.0	.0	.0	.0	87	.2	3.1
-9/-10	.1	.6	1.2	1.8	.6	.0	.0	.0	.0	.0	71	.1	4.1
-11/-12	.1	.4	1.1	1.3	.0	.0	.0	.0	.0	.0	33	.1	3.0
-13/-14	.0	.1	.6	.1	.0	.0	.0	.0	.0	.0	13	.0	.6
-15/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-17/-18	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-19/-20	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
-20/-22	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	8	62	223	418	513	363	99	11	1	1	1700	73	1023
PCT	.3	3.7	13.1	24.6	30.2	21.4	3.8	.8	.1	.1	100.0	4.4	93.6

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	3.1	.2	3.8	1.0	.0	.0	.0	3.0
3-4	.0	.0	.0	.0	.0	.0	3.3	.2	3.3	7.4	.0	.0	.0	10.9
5-6	.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.6	.4	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	2.4	.0	.0	2.0	.6	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.4	.8	.0	.0	2.2
10-11	.0	.0	.0	.0	.0	.0	.4	.0	.0	.6	.6	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.6	.0	.0	.7
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.0	.0	1.2
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52-54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55-57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70-72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76-78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
79-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88-90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94-96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
97-99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.1	10.1	2.2	.0	.0	16.4	.4	8.6	17.6	3.2	.0	.0	29.9

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2
1-2	.0	.0	.0	.0	.0	.0	2.1	.0	1.4	.2	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	2.8	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.8	.6	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.4	.0	.2	.2	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22-24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25-27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31-33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34-36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37-39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40-42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52-54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55-57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64-66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67-69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70-72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76-78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
79-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88-90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94-96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
97-99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.0	.3	.0	.0	7.2	.6	2.3	2.4	.6	.0	.0	5.4

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0011 PORTO ALEGRE
30.65 47.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	3.3	1.8	.0	.0	9.3	.4	3.3	7.3	4.2	.6	.0	15.9

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	3.0	2.8	.7	.0	9.0	.6	1.3	1.0	.7	.0	.0	3.6	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.7	3.3	.2	.0	.0	.0	6.2	088
1-2	1.9	10.0	3.3	.0	.0	.0	21.2	
3-4	.6	9.6	18.1	.0	.0	.0	29.0	
5-6	.0	1.7	12.3	3.3	.0	.0	17.7	
7	.0	.4	7.3	3.2	.0	.0	12.9	
8-9	.0	.2	3.3	2.3	.0	.0	6.3	
10-11	.0	.0	1.3	1.3	.0	.0	3.1	
12	.0	.0	.6	.6	.0	.0	1.3	
13-16	.0	.0	.2	1.0	.0	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	31.2	47.3	19.0	1.3	.0	100.0	520

PERIOD: (OVER-ALL) 1969-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	6.7	12.1	6.7	2.8	1.2	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	4
6-7	.0	1.8	6.5	10.8	3.3	4.6	1.6	.6	.7	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	353	6
8-9	.0	.0	1.8	3.0	3.3	2.3	1.1	.8	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	187	7
10-11	.0	.2	.3	.4	1.4	1.4	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	8
12-13	.0	.0	.2	.4	.2	.4	.4	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	12
INDET	1.3	1.3	2.5	1.8	1.6	.7	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
TOTAL	2.9	13.8	25.2	24.7	18.4	9.1	3.3	2.6	4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	1083	5
PCT	2.7	12.5	23.3	22.8	17.0	10.7	4.7	3.0	2.4	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1855-1975

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AREA 0011 PORTO ALEGRE
30.63 46.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	POG WG PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	3.0	.7	2.1	.0	.0	.0	.0	5.8	1.5	3.5	4.5	.2	4.9	.0	78.5
NE	4.3	.9	1.2	.0	.0	.0	.0	4.4	1.5	3.1	4.4	.2	4.9	.0	80.0
E	8.2	2.3	4.0	.0	.0	.0	.0	15.5	2.8	1.2	1.6	.6	.9	.0	77.3
SE	7.1	6.5	2.0	.0	.0	.0	.0	15.6	1.1	2.2	3.6	.0	.0	.0	79.0
S	5.0	1.9	4.4	.0	.0	.0	.5	11.8	1.0	1.1	2.2	.0	.0	.0	84.5
SW	3.7	2.1	2.0	.0	.0	.0	.0	7.4	1.5	1.2	3.7	.2	1.0	.0	84.9
W	6.2	7.1	2.1	.0	.0	.0	.0	14.8	2.5	1.1	3.0	.0	.0	.0	79.4
NW	2.6	.0	4.5	.0	.0	.0	.0	7.2	3.4	1.5	5.3	1.5	1.1	.0	80.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	22.2	.0	11.1	.0	61.1
TOT PCT	4.7	2.3	2.3	.0	.0	.0	.1	9.3	1.7	2.2	3.6	.3	2.7	.0	80.3
TOT OBS:	1717														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT 03 TIME	PCPN PAST HOUR	THDR LTNG	POG WG PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	4.4	2.2	2.4	.0	.0	.0	.0	8.7	.9	3.9	3.1	.0	2.2	.0	81.9
0600	4.7	1.7	2.4	.0	.0	.0	.0	8.3	1.7	3.1	3.1	.7	2.1	.0	81.3
1200	3.1	2.6	2.6	.0	.0	.0	.2	10.3	1.9	1.3	4.7	.2	1.9	.0	80.1
1800	4.9	2.7	2.0	.0	.0	.0	.0	9.6	2.2	.2	4.9	.2	4.7	.0	78.4
TOT PCT	4.8	2.3	2.3	.0	.0	.0	.1	9.3	1.7	2.2	3.9	.3	2.7	.0	80.3
TOT OBS:	1796														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	4.6	5.4	2.4	.3	.0	13.6	14.7	12.4	14.1	14.4	14.5	14.3	13.2	13.4	13.0	8.3
NE	.9	1.7	11.1	3.1	.3	.2	22.3	14.9	22.9	22.2	22.8	20.9	21.1	21.1	24.0	32.1	32.1
E	.6	4.3	3.9	.7	.2	.0	9.7	12.3	10.3	10.7	8.8	14.3	9.6	10.3	6.4	17.9	17.9
SE	.6	4.2	9.5	.9	.2	.1	9.5	12.6	9.7	9.8	9.9	3.9	9.4	10.0	8.9	6.5	6.5
S	.7	3.9	4.1	1.0	.3	.1	10.1	13.1	11.6	9.2	9.7	9.2	10.2	9.0	10.6	12.3	12.3
SW	.8	4.4	6.7	3.8	.9	.1	16.6	16.8	18.7	16.1	15.6	11.6	16.0	15.8	17.3	16.7	16.7
W	.6	2.4	2.2	2.2	.9	.1	9.1	18.1	7.6	8.3	8.7	10.5	10.0	9.5	10.1	6.0	6.0
NW	.4	2.7	2.0	.9	.2	.0	6.4	13.1	4.2	6.8	7.0	5.3	7.1	8.6	5.3	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.4	2.9	3.1	.0	2.1	2.2	1.9	.0	.0
TOT OBS:	327	2301	2769	1035	344	39	4915	14.3	1240	641	1267	38	1241	1019	1227	42	42
TOT PCT:	7.6	33.3	40.0	13.0	3.8	.6		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	15
N	2.3	5.9	4.3	1.0	.1	13.6	14.7	13.0	14.4	13.9	13.2
NE	3.1	10.0	7.8	1.2	.3	22.3	14.9	22.6	23.0	21.1	24.3
E	2.3	5.1	1.9	.4	.2	9.7	12.3	10.3	8.9	9.9	9.1
SE	2.1	4.9	1.7	.5	.1	9.5	12.6	9.7	9.7	9.6	8.5
S	2.3	5.3	1.8	.6	.2	10.1	13.1	10.6	9.7	9.7	10.7
SW	2.2	6.7	3.0	2.4	.3	16.6	16.8	17.7	15.5	15.9	17.2
W	1.4	3.0	2.7	1.7	.3	9.1	18.1	6.0	8.8	9.9	10.0
NW	1.6	2.7	1.4	.5	.0	6.4	13.1	3.3	7.0	7.8	5.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4					2.4	.0	2.6	3.0	2.1	1.8
TOT OBS:	1360	3019	1860	574	102	6915	14.3	2081	1303	2260	1269
TOT PCT:	19.7	43.7	26.9	3.3	1.3		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 7-13-1975
(OVER-ALL) 455-1975

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	2.8	3.2	34.3	39.1	14.1	4.2	.4	14.1	100.0	2081
0600Z	3.0	3.0	33.3	40.8	13.8	3.2	.7	14.2	100.0	1305
1200Z	2.1	3.0	32.7	39.2	16.1	3.4	.7	14.3	100.0	2260
1800Z	1.8	4.3	32.4	42.2	15.5	3.1	.3	14.3	100.0	1269
TOT	104	303	2301	2769	1033	244	39	14.3		6913
PCT	2.4	3.2	33.3	40.0	13.0	3.3	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	6.4	2.6	3.1	4.0		3.9
NE	11.5	3.3	3.4	6.7		3.8
E	2.4	.9	2.1	3.5		3.2
SE	1.8	1.3	1.9	2.8		3.1
S	3.7	1.9	3.3	2.8		4.4
SW	7.2	2.7	4.5	3.8		3.7
W	2.4	.7	2.3	1.2		3.9
NW	1.4	.4	.8	.9		3.8
VAR	.8	.0	.0	.0		.0
CALM	.2	.1	.0	.2		3.6
TOT OBS	498	179	294	308	1280	4.1
TOT PCT	39.0	14.2	23.4	24.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH 34/8)
AND OCCURRENCE OF NH 45/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	ANY HGT	TOTAL
	149	299	399	999	1999	3499	4999	6499	7999			OBS
N	.3	.0	.3	.9	1.3	.9	.4	.1	.1	.2	11.4	
NE	.5	.4	.4	1.3	2.2	1.8	.8	.2	.2	.1	18.6	
E	.0	.0	.3	1.3	1.8	.6	.4	.2	.1	.1	4.3	
SE	.2	.0	.2	.8	1.2	.6	.9	.2	.1	.	4.0	
S	.1	.1	.1	.9	2.0	.8	.4	.1	.0	.0	7.1	
SW	.1	.0	.4	1.2	1.8	.8	.8	.4	.0	.2	11.3	
W	.1	.0	.1	.6	1.2	.4	.2	.1	.0	.0	3.1	
NW	.0	.0	.2	.2	.2	.3	.2	.0	.0	.	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	18	8	23	96	147	77	47	17	3	7	613	1280
TOT PCT	1.4	.5	2.0	7.6	11.6	6.1	3.7	1.3	.4	.6	64.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (MH 34/8) AND VSBY (MH)

CEILING (FEET)	OR >10	OR >3	OR >2	VSBY (MH) OR >1	OR >1/2	OR >1/4	OR >30YD	OR >30
OR >6500	.5	.9	.9	.9	.9	.9	.9	.9
OR >5000	1.4	2.0	2.3	2.3	2.3	2.3	2.3	2.3
OR >3500	4.1	5.3	6.0	6.0	6.0	6.0	6.0	6.0
OR >2000	7.7	11.1	12.1	12.1	12.1	12.1	12.1	12.1
OR >1000	14.4	20.9	23.0	23.2	23.4	23.4	23.4	23.4
OR >500	18.1	27.7	30.4	30.9	31.0	31.0	31.0	31.0
OR >300	18.8	29.4	32.3	32.9	33.0	33.0	33.0	33.0
OR >150	18.8	29.3	32.8	33.4	33.5	33.5	33.5	33.5
OR >0	19.0	30.2	33.5	34.1	34.6	34.7	34.9	34.9
TOTAL	243	386	429	437	443	444	447	447

TOTAL NUMBER OF OBS: 1280

PCT FREQ NH 45/8: 49.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCH	TOTAL OBS
	27.4	18.1	8.8	2.4	7.0	3.5	3.7	7.3	14.8	.9 1373

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.4	.0	.2	.1	.3	.1	.1	.0	.1	1.5	
	TOT N	.1	.4	.0	.2	.1	.3	.1	.1	.0	.1	1.5	
1/2<1	PCP	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.1	.0	.1	.1	.1	.0	.2	.5	
	TOT N	.1	.1	.0	.1	.0	.1	.1	.1	.0	.2	.5	
1<2	PCP	.0	.1	.1	.1	.1	.0	.1	.0	.0	.0	.5	
	NO PCP	.1	.3	.1	.1	.0	.2	.0	.0	.0	.0	.8	
	TOT N	.2	.4	.2	.2	.1	.2	.1	.0	.0	.0	1.3	
2<5	PCP	.1	.3	.4	.2	.1	.0	.0	.1	.0	.0	1.4	
	NO PCP	.8	1.4	.4	.2	.1	.1	.2	.3	.0	.1	2.6	
	TOT N	1.0	1.7	.8	.4	.2	.1	.2	.4	.0	.1	5.0	
5<10	PCP	.5	.7	.9	.7	.9	1.0	.8	.1	.0	.0	5.8	
	NO PCP	4.8	7.0	2.1	1.7	1.8	2.2	1.4	1.3	.0	.4	23.6	
	TOT N	5.3	7.6	3.1	2.4	2.7	3.2	2.4	1.4	.0	.4	29.3	
10<	PCP	.2	.4	.1	.2	.2	.3	.1	.0	.0	.0	1.8	
	NO PCP	8.1	15.4	5.8	4.7	7.4	11.9	5.0	1.9	.0	.4	60.4	
	TOT N	8.4	15.8	5.9	4.9	7.6	12.2	5.3	2.0	.0	.4	62.2	
TOT OBS													1714
TOT PCT		15.0	26.3	9.8	8.1	10.7	17.1	8.2	3.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.1	.0	.0	.1	.0	.3	.6	
	4-10	.2	.3	.1	.1	.1	.0	.1	.1	.0	.0	1.0	
	11-21	.0	.2	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT N	.2	.7	.1	.2	.2	.2	.1	.2	.0	.3	2.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT N	.1	.1	.0	.1	.1	.1	.0	.0	.0	.1	.6	
1<2	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.6	
	11-21	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.3	
	22+	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.6	
	TOT N	.3	.4	.3	.3	.3	.2	.1	.0	.0	.1	2.0	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.4	.3	.3	.1	.1	.3	.1	.0	.0	1.9	
	11-21	.3	.9	.9	.2	.2	.2	.1	.2	.0	.0	2.6	
	22+	.1	.3	.2	.2	.1	.2	.2	.1	.0	.0	1.3	
	TOT N	1.1	1.6	1.1	.6	.4	.5	.4	.3	.0	.1	6.3	
5<10	0-3	.1	.1	.2	.2	.1	.1	.1	.1	.0	.3	1.4	
	4-10	1.5	1.9	.9	.9	.7	1.0	.4	.4	.0	.0	7.7	
	11-21	1.8	3.0	1.4	1.3	1.0	1.4	.8	.6	.0	.0	11.4	
	22+	.0	1.4	.3	.4	.5	1.2	1.0	.2	.0	.0	3.9	
	TOT N	4.4	5.4	2.8	2.7	2.3	3.7	2.3	1.4	.0	.3	20.4	
10<	0-3	.4	.5	.4	.4	.3	.3	.3	.2	.0	.9	4.1	
	4-10	3.0	3.6	3.3	2.6	2.9	3.7	1.5	1.8	.0	.0	22.7	
	11-21	3.1	6.7	2.3	1.7	3.2	6.0	2.9	.8	.0	.0	27.0	
	22+	1.0	1.3	.3	.3	.6	2.9	1.8	.2	.0	.0	8.3	
	TOT N	7.6	12.4	6.4	5.0	7.2	13.3	6.5	3.0	.0	.9	62.3	
TOT OBS													3633
TOT PCT		13.7	21.8	10.6	8.9	10.4	18.2	9.4	3.1	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1913-1975
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	.9	6.7	9.1	4.8	2.1	1.3	.6	.0	26.4	73.6	329
06009	1.3	.9	2.3	5.2	12.0	5.3	2.8	.3	.0	1.2	31.9	68.1	326
12019	1.1	.9	2.6	9.7	12.9	5.7	4.0	2.3	.6	.6	40.3	59.7	330
18021	1.0	.0	1.6	7.7	10.2	8.0	3.2	1.2	.3	.3	36.6	63.4	323
TOT	18	6	26	96	147	79	47	18	3	7	431	879	1330
PCT	1.4	.5	2.0	7.4	11.1	5.9	3.5	1.4	.4	.5	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	2.3	.3	1.3	5.0	27.4	63.7	1070
06009	1.7	.5	1.3	6.9	26.1	63.5	778
12019	2.2	1.0	2.6	7.3	25.3	61.4	1089
18021	2.3	.7	2.6	7.4	26.9	60.1	733
TOT	79	23	74	243	974	2299	3692
PCT	2.1	.6	2.0	6.6	26.4	62.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <2	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	1.0	2.2	10.8	18.2	71.0	314
06009	1.6	3.8	16.7	19.9	63.5	312
12019	1.2	3.3	18.6	24.2	57.2	339
18021	1.9	4.1	17.6	21.3	61.0	313
TOT	18	36	203	268	807	1280
PCT	1.4	4.4	16.0	20.9	62.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
78/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.0	.0	.6	1.1	1.6	1.6	63	4.7
69/69	.1	.0	.0	.5	1.8	3.8	10.1	9.2	242	25.5
60/64	.0	.1	.2	1.3	5.3	9.0	11.0	11.6	319	36.7
55/59	.0	.0	.0	1.9	2.6	6.6	8.5	3.0	322	24.0
50/54	.0	.0	.0	1.3	1.7	1.9	1.0	.0	81	6.0
45/49	.0	.0	.0	.0	.1	.6	.1	.1	13	1.0
40/44	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	1	1	3	42	162	306	444	383	1342	100.0
PCT	.1	.1	.2	3.1	12.1	22.8	33.1	28.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
2.0	1.8	.3	.1	.1	.2	.0	.1	.0	.0
7.0	10.0	2.0	1.3	1.1	1.3	.6	1.7	.0	.1
4.6	10.2	4.6	4.3	3.3	5.9	1.8	1.5	.0	.6
1.2	2.1	2.6	2.0	3.6	7.5	3.9	.6	.0	.5
.2	.2	.2	.6	.9	2.3	1.3	.3	.0	.1
.0	.1	.1	.0	.1	.4	.2	.1	.0	.0
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
15.0	24.4	9.6	8.4	11.4	17.5	8.0	4.2	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	70	68	61	52	48	43	60.3	2070
06009	73	70	68	60	52	48	43	60.1	1301
12019	79	73	70	62	53	49	44	61.8	2221
18021	79	74	71	62	54	50	47	62.4	1239
TOT	79	72	69	61	52	47	43	61.2	6831

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.3	2.7	12.5	21.7	31.5	31.3	83	368		
06009	.0	3.2	11.8	20.1	35.1	29.9	82	368		
12019	.0	3.4	11.4	22.7	35.5	29.0	82	383		
18021	.0	4.9	12.1	28.7	29.6	24.8	81	307		
TOT	1	48	164	318	447	397	82	1375		

AUGUST

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1893-1975AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 52	49 56	53 60	57 64	61 68	65 72	69 76	73 80	77 80	TOT	M FOG	WQ FOG
14/16	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.3	.2	.2	.0	.1	12	.0	.8
9/10	.0	.0	.1	.0	.4	.3	.2	.0	.0	23	.1	1.4
7/8	.0	.0	.0	.1	.3	.7	.5	.0	.0	29	.2	1.7
6	.0	.0	.0	.3	.9	.3	.1	.1	.0	26	.3	1.4
5	.0	.0	.1	.7	1.6	.8	.4	.1	.0	62	.4	3.3
4	.0	.0	.1	.7	2.6	1.9	.1	.3	.1	90	.9	3.5
3	.0	.0	.4	1.8	1.8	1.7	.8	.0	.0	104	.1	6.6
2	.0	.1	1.0	2.3	4.0	3.0	1.1	.1	.0	181	.9	11.1
1	.1	.1	.8	2.1	2.6	2.7	1.0	.0	.0	146	.9	9.1
0	.0	.2	1.8	1.7	3.1	3.4	.6	.0	.0	136	.5	9.9
-1	.0	.1	.6	1.5	2.4	2.9	.7	.0	.0	130	.9	8.0
-2	.0	.4	1.3	2.3	2.9	2.1	.4	.0	.0	149	.4	9.2
-3	.0	.1	1.0	1.3	2.2	.4	.3	.0	.0	84	.1	3.3
-4	.0	.7	.9	1.5	2.2	.6	.1	.0	.0	92	.3	3.7
-5	.1	.4	.6	1.3	1.6	.2	.0	.0	.0	66	.0	4.1
-6	.1	.1	.8	.7	1.1	.2	.0	.0	.0	46	.0	3.0
-7/-8	.0	.2	.6	2.3	1.4	.1	.1	.0	.0	74	.0	4.8
-9/-10	.1	.3	.7	1.9	.3	.0	.0	.0	.0	57	.1	3.6
-11/-13	.1	.1	.7	.4	.1	.0	.0	.0	.0	22	.0	1.4
-14/-16	.1	.2	.1	.0	.0	.0	.0	.0	.0	6	.0	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	8	47	172	367	341	103	12	3	1997	38	1499	
PCT	.3	3.0	11.0	23.6	32.4	21.9	6.4	.8	1.1	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	1.1	.2	.4	.1	.0	.0	.0	.3
1-2	.0	1.3	.4	.0	.0	.0	1.8	.0	1.7	2.2	.0	.0	.0	3.8
3-4	.2	1.3	2.2	.4	.0	.0	4.0	.0	1.4	8.2	.9	.0	.0	10.3
5-6	.0	.6	2.0	1.1	.0	.0	3.6	.0	.3	6.2	.8	.0	.0	7.4
7	.0	.0	.0	.7	.0	.0	1.6	.0	.4	2.2	.5	.0	.0	3.2
8-9	.0	.0	.4	.4	.0	.0	.8	.7	.0	.3	.2	.0	.0	.9
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.8	.2	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	6.0	2.9	.0	.0	13.3	.4	4.8	19.7	3.2	.2	.0	28.3

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.4	.2	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.4
1-2	.6	2.4	1.0	.0	.0	.0	4.0	.2	2.3	.3	.0	.0	.0	2.8
3-4	.0	1.6	2.4	.2	.0	.0	4.1	.0	1.1	.3	.0	.0	.0	1.7
5-6	.0	.2	.9	.8	.0	.0	1.1	.0	.3	.8	.0	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.3	.3	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.6	4.8	.4	.0	.0	10.6	.2	4.9	2.1	.0	.0	.0	7.2

PERIOD: (OVER-ALL) 1949-1975

AUGUST

AREA 0011 PORTO ALEGRE
30.6S 49.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.4	.2	.0	.0	.0	.6	.4	.2	.1	.0	.0	.0	.7	
1-2	.2	1.6	.7	.0	.0	.0	2.5	.0	2.1	.3	.0	.0	.0	2.4	
3-4	.0	1.6	1.1	.0	.0	.0	2.7	.0	1.2	3.9	.2	.0	.0	5.3	
5-6	.0	.0	2.8	.2	.0	.0	3.0	.0	.2	2.7	.4	.0	.0	3.3	
7	.0	.3	.7	.4	.0	.0	1.4	.0	.2	1.0	1.1	.0	.0	2.4	
8-9	.0	.2	.6	.0	.0	.0	.8	.0	.1	.0	1.7	.0	.0	1.9	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.3	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.0	6.2	.9	.0	.0	11.3	.4	4.1	8.3	4.1	.0	.0	17.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.2	.4	.0	.0	.0	.6	.2	.4	.0	.0	.0	.0	.6	
3-4	.0	.8	1.6	.0	.0	.0	2.4	.2	.8	.2	.0	.0	.0	1.0	
5-6	.0	.0	.9	.7	.0	.0	1.7	.0	.2	.3	.2	.0	.0	.9	
7	.0	.0	1.2	.7	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.2	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.9	4.2	2.6	.2	.0	8.0	.4	1.7	.7	.4	.0	.0	3.2	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	2.3	3.3	.6	.0	.0	.0	6.2	493
1-2	1.2	18.2	3.4	.0	.0	.0	18.0	
3-4	.2	9.9	20.0	1.6	.0	.0	31.7	
5-6	.2	1.1	10.5	3.3	.0	.0	15.1	
7	.0	1.2	6.8	3.3	.0	.0	11.3	
8-9	.2	.2	1.9	2.3	.0	.0	4.7	
10-11	.0	.2	.0	2.3	.2	.0	2.5	
12	.0	.4	.0	.4	.0	.0	.8	
13-16	.0	.2	.0	.0	.2	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	29.3	51.8	14.4	.4	.0	100.0	

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAV. HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	3.2	8.0	13.3	9.3	2.3	1.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	363	3
4-7	.1	.9	8.1	9.3	8.0	3.5	1.1	.3	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	317	4
8-9	.0	.8	2.2	4.8	9.7	3.2	1.5	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	198	7
10-11	.0	.0	.3	.9	1.1	1.3	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	8
12-13	.0	.0	.2	.3	.8	.2	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
13-14	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	5
15-16	1.3	1.4	1.7	1.1	1.8	.9	.7	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1056	5
TOTAL	51	116	272	289	180	1.2	82	21	18	3	1	1	0	0	0	0	0	0	0	100.0	
PCT	4.8	11.9	25.8	21.7	17.0	10.6	4.9	2.0	1.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

IND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.7	3.6	2.0	.0	.0	.0	.5	12.8	2.6	3.4	2.0	.0	3.6	.0	77.4
NE	6.0	1.9	1.3	.0	.0	.0	.0	9.3	1.6	3.2	2.8	.3	4.3	.0	78.8
E	6.3	4.0	1.3	.0	.0	.0	.0	11.6	3.0	1.1	3.7	.0	1.4	.0	79.9
SE	7.2	1.8	2.5	.0	.0	.0	.0	11.2	3.9	.8	2.3	.3	.8	.0	81.4
S	4.8	.8	2.1	.0	.0	.0	.0	7.5	1.9	1.1	3.3	.0	.7	.0	86.0
SW	3.7	1.0	1.6	.0	.0	.0	.0	6.4	3.1	1.8	2.3	.4	.0	.0	86.7
W	4.1	.0	1.3	.0	.0	.0	.0	3.4	2.2	.0	2.6	.9	2.2	.0	86.4
NW	8.0	1.6	.8	.0	.0	.0	.0	10.4	2.0	3.2	3.2	.0	.8	.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	28.0	.0	.0	.0	68.0
TOT PCT	5.6	1.9	1.7	.0	.0	.0	.1	9.2	2.5	2.0	3.1	.3	2.0	.0	81.7
TOT OBS:	1737														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	6.8	2.3	.9	.0	.0	.0	.0	10.1	2.0	3.8	2.9	.2	2.0	.0	80.4
0600Z	3.4	1.6	1.6	.0	.0	.0	.0	8.2	2.8	2.8	4.4	.2	1.9	.0	80.4
1200Z	4.8	2.3	2.3	.0	.0	.0	.2	9.5	1.7	.4	2.7	.8	2.3	.0	83.0
1800Z	5.3	1.4	2.3	.0	.0	.0	.0	9.0	3.5	1.2	3.7	.0	2.1	.0	81.3
TOT PCT TOT OBS:	5.8	1.8	1.6	.0	.0	.0	.1	9.2	2.5	2.0	3.4	.3	2.1	.0	81.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRZG	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.2	4.7	1.8	.3	.0		10.4	13.0		9.7	9.7	9.8	10.1	12.1	11.1	10.4	6.0
NE	.7	8.9	11.8	4.3	.4	.1		23.3	15.0		23.0	23.8	24.3	27.4	23.9	22.3	23.3	20.8
E	.7	4.9	5.1	1.3	.3	.0		12.3	13.0		14.4	11.9	11.3	9.5	11.6	11.1	13.3	8.9
SE	.7	5.3	4.3	1.0	.3	.0		11.0	12.3		12.3	13.3	11.8	14.9	10.2	12.3	11.2	18.3
S	1.1	9.3	4.6	1.4	.2	.0		12.7	12.1		13.5	11.6	12.9	9.3	12.1	12.3	13.3	11.3
SW	.9	4.7	6.7	3.7	.0	.0		18.9	16.2		16.8	13.9	18.1	21.4	16.9	17.2	18.0	23.8
W	.3	1.7	1.6	1.0	.7	.1		3.8	17.0		4.7	3.7	6.3	4.8	6.2	6.3	5.3	2.4
NW	.3	2.0	1.3	.5	.1	.0		4.3	12.6		3.3	3.1	4.7	.0	4.4	4.7	3.9	3.6
VAR	.8	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.0	3.4	2.8	2.4	2.4	2.1	1.3	4.8
TOT OBS:	316	2327	2723	1034	212	17	6828	13.9			1221	820	1221	42	1227	1023	1232	42
TOT PCT	7.6	34.1	38.0	13.1	3.1	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT PRZG	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	09
N	1.8	4.3	3.3	.8	.1		10.4	13.0	9.8	9.9	11.7
NE	3.1	10.6	8.3	1.4	.2		23.3	15.0	23.3	24.4	23.2
E	2.7	3.9	3.0	.3	.1		12.3	13.0	13.4	11.2	11.4
SE	2.8	6.2	2.4	.4	.1		11.9	12.3	12.8	11.9	11.3
S	3.4	6.0	2.6	.6	.0		12.7	12.1	12.8	12.7	12.2
SW	2.8	6.2	3.7	2.0	.3		18.9	16.2	16.4	16.3	17.0
W	1.4	1.8	1.3	.8	.4		3.8	17.0	3.1	6.3	6.3
NW	1.2	1.9	.9	.2	.1		4.3	12.6	4.2	4.3	4.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	2.3						2.3	.0	2.3	2.8	2.3
TOT OBS:	1468	2923	1900	492	87	6828	13.9		2041	1263	1230
TOT PCT	21.5	42.8	27.8	6.6	1.3		100.0		100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1919-1975
(OVER-ALL) 1902-1975

AREA 0011 PORTO ALEGRE
30.85 49.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.3	3.0	34.5	40.1	14.0	3.3	.3	14.0	100.0	2041
0600	2.8	3.2	34.7	41.1	13.8	2.2	.2	13.5	100.0	1263
1200	2.2	3.3	32.7	39.6	16.4	3.3	.2	14.1	100.0	2250
1800	1.4	3.3	33.2	38.8	16.0	3.1	.2	14.0	100.0	1274
TOT	196	260	2327	2723	1093	212	17	19.9		6820
PCT	2.3	3.3	34.1	39.9	15.1	3.1	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.1	1.8	3.8		4.0
NE	8.7	2.6	3.9	8.8		4.6
E	2.9	1.3	3.1	4.7		3.3
SE	2.3	1.1	3.1	4.3		3.3
S	4.3	1.3	3.1	3.3		4.3
SW	6.7	2.6	4.7	4.4		4.1
W	1.8	.9	1.1	1.1		4.3
NW	1.3	.4	.3	1.3		4.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.2	.1	.7		4.3
TOT OBS	441	149	308	424	1322	4.4
TOT PCT	33.4	11.3	23.3	32.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/MH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.1	1.0	1.2	.8	.4	.1	.1	.0	.0	7.4
NE	.6	.0	.0	2.8	3.3	2.3	1.7	.3	.1	.0	.0	14.6
E	.5	.0	.1	1.2	1.9	.9	.7	.3	.3	.0	.0	6.1
SE	.2	.0	.1	1.4	2.2	.7	.6	.2	.1	.2	.0	5.2
S	.4	.0	.2	1.2	1.3	.8	.4	.2	.1	.1	.0	7.6
SW	.1	.0	.2	1.3	2.0	1.3	1.3	.8	.0	.0	.0	10.8
W	.1	.0	.0	.2	.3	.3	.4	.2	.0	.1	.0	2.3
NW	.2	.1	.1	.4	.2	.2	.4	.0	.0	.0	.0	1.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	34	1	20	133	131	103	77	30	10	3	788	1322
TOT PCT	2.6	.1	1.5	10.1	11.4	7.8	5.8	2.3	.8	.4	57.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (MH >4/8) AND VSBY (MH)

CEILING (FEET)	VSBY (MH)							
	>10	>8	>6	>4	>1/2	>1/4	>FOYD	>0
> OR >3500	.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
> OR >3000	1.0	2.8	3.1	3.4	3.4	3.4	3.3	3.3
> OR >2500	3.0	7.0	8.0	9.1	9.1	9.1	9.3	9.3
> OR >2000	9.4	14.4	16.0	16.3	16.4	16.7	16.9	16.9
> OR >1500	13.7	24.3	27.3	27.8	28.1	28.2	28.4	28.4
> OR >1000	19.8	32.3	37.2	37.8	38.1	38.2	38.4	38.4
> OR >500	28.1	38.4	38.8	39.4	39.6	39.8	39.9	39.9
> OR >150	38.1	38.4	39.0	39.6	39.8	39.9	40.1	40.1
> OR >0	38.2	34.4	40.1	40.9	41.2	41.6	42.7	42.8
TOTAL	271	461	538	548	552	557	572	574

TOTAL NUMBER OF OBS: 1340

PCT FREQ NH <5/8: 57.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	10	TOTAL OBS
	23.9	10.4	8.3	7.1	6.6	4.5	6.4	8.3	22.0	2.3	1431	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.65 49.14

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.3	.2	.0	.2	.4	.1	.1	.0	.2	1.6	
	TOT %	.0	.4	.2	.0	.2	.4	.1	.1	.0	.2	1.7	
1/2<1	PCP	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.3	
	NO PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.9	
	TOT %	.1	.2	.1	.1	.0	.1	.1	.0	.0	.0	.6	
1<2	PCP	.0	.1	.0	.0	.0	.2	.1	.0	.0	.0	.5	
	NO PCP	.1	.0	.1	.1	.1	.2	.0	.1	.0	.1	.6	
	TOT %	.1	.1	.1	.1	.1	.4	.1	.1	.0	.1	1.1	
2<5	PCP	.4	.6	.3	.3	.2	.3	.0	.1	.0	.0	2.1	
	NO PCP	.0	1.0	.6	.3	.4	.5	.1	.1	.0	.2	4.4	
	TOT %	.9	2.4	.9	.5	.5	.8	.1	.2	.0	.2	6.6	
5<10	PCP	.7	1.3	.7	.9	.6	.4	.1	.2	.0	.0	5.0	
	NO PCP	2.6	6.9	3.7	3.3	2.8	3.6	1.3	1.1	.0	.2	25.4	
	TOT %	3.3	8.2	4.4	4.2	3.4	4.1	1.4	1.3	.0	.2	30.4	
10+	PCP	.3	.3	.2	.0	.1	.1	.0	.0	.0	.0	1.1	
	NO PCP	6.2	13.9	6.3	6.4	7.9	11.9	2.8	1.9	.0	.8	58.3	
	TOT %	6.5	14.2	6.5	6.5	8.1	12.1	2.8	1.9	.0	.8	59.4	
TOT OBS													1737
TOT PCT													10.9 25.3 12.3 11.4 12.3 17.8 4.6 3.6 .0 1.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.1	.2	.1	.1	.2	.1	.0	.0	.0	.0	.7	
	11-21	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.4	.2	.1	.2	.3	.1	.1	.0	.2	1.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4	
	11-21	.1	.1	.2	.1	.1	.2	.0	.1	.0	.0	.6	
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.3	.2	.3	.3	.2	.4	.1	.1	.0	.0	1.9	
2<5	0-3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	.6	
	4-10	.3	.4	.4	.3	.4	.4	.2	.1	.0	.0	2.6	
	11-21	.4	1.1	.3	.4	.3	.2	.1	.1	.0	.0	2.8	
	22+	.2	.4	.1	.1	.1	.2	.1	.1	.0	.0	1.3	
	TOT %	.9	2.0	.9	.8	.8	.8	.3	.2	.0	.2	7.0	
5<10	0-3	.1	.2	.2	.2	.2	.2	.0	.1	.0	.4	1.5	
	4-10	.8	1.6	1.2	1.3	1.0	.9	.4	.8	.0	.0	7.9	
	11-21	1.5	2.9	1.6	1.5	1.1	1.3	.5	.3	.0	.0	10.9	
	22+	.7	1.4	.3	.3	.3	.5	.9	.1	.0	.0	4.3	
	TOT %	3.1	6.2	3.3	3.3	2.8	3.2	1.1	1.2	.0	.4	24.6	
10+	0-3	.1	.3	.6	.4	.6	.6	.3	.2	.0	1.0	4.0	
	4-10	2.1	4.1	3.3	4.1	3.5	3.6	1.2	1.1	.0	.0	23.1	
	11-21	3.0	6.8	3.2	2.3	3.3	4.3	1.3	.6	.0	.0	27.0	
	22+	.6	2.1	.4	.6	.9	3.6	1.3	.4	.0	.0	9.9	
	TOT %	5.8	13.3	7.3	7.3	6.3	14.0	4.3	2.3	.0	1.0	64.0	
TOT OBS													3657
TOT PCT													10.3 22.3 12.4 12.1 12.2 18.8 6.0 3.9 .0 1.8 100.0

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1975

AREA 0011 PORTO ALEGRE
30.63 49.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HR	000	180	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	3.6	.0	.9	9.7	9.7	8.3	6.9	1.3	.9	.6	42.3	37.7	331
06009	3.6	.3	.9	8.1	11.1	6.9	3.6	2.1	.9	.0	37.7	62.3	332
12015	2.5	.3	2.8	9.1	11.9	7.8	6.9	1.7	1.1	.3	44.3	35.7	361
18021	1.4	.6	1.4	11.7	11.7	6.7	5.3	3.6	.3	.8	42.8	37.2	360
TOT	38	2	21	134	134	103	79	31	11	6	379	805	1364
PCT	2.7	.1	1.5	9.7	11.1	7.4	5.7	2.2	.8	.4	41.8	38.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	1.2	.9	1.3	6.6	26.3	63.0	1043
06009	2.2	.3	1.8	6.9	23.6	63.0	772
12015	1.9	.8	1.3	6.6	23.1	64.0	1106
18021	1.7	.3	2.9	8.7	23.9	42.4	784
TOT	67	26	70	263	924	2337	3767
PCT	1.8	.7	1.9	7.1	24.9	63.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <3/8 AND 5+	TOTAL
(GMT)	<3000	<1	<5	AND 5+		OBS
00003	3.7	3.3	20.6	24.3	33.1	321
06009	3.8	3.6	18.3	22.6	38.9	319
12015	2.3	6.4	21.2	26.4	32.3	345
18021	1.4	3.4	22.0	23.7	34.4	335
TOT	37	69	276	323	739	1340
PCT	2.8	5.1	20.6	24.3	33.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
79/79	.0	.0	.0	.1	.0	.1	.1	.0	4	.3
70/74	.0	.0	.0	.2	.3	1.8	1.9	.0	66	5.4
69/69	.0	.0	.1	1.0	3.1	3.9	9.6	12.4	433	32.1
60/64	.0	.0	.1	1.4	6.4	7.9	13.1	9.7	322	38.7
59/59	.0	.0	.3	1.3	3.0	3.9	3.0	4.2	239	17.7
50/54	.0	.0	.1	.3	.7	1.1	1.9	.4	69	4.4
49/49	.0	.0	.1	.0	.1	.1	.0	.0	3	.4
TOTAL	0	9	60	187	281	426	386		1349	100.0
PCT	.0	.0	.7	4.4	13.9	20.8	31.6	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
79/79	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0
70/74	1.7	2.8	.7	.4	.1	.2	.2	.3	.0	.0
69/69	6.0	11.6	3.4	2.3	2.1	2.3	1.4	1.7	.0	.1
60/64	2.7	8.8	6.1	6.1	3.0	6.3	1.7	.9	.0	1.1
59/59	.9	1.9	2.0	1.7	3.4	3.6	.9	.9	.0	.4
50/54	.0	.1	.1	.4	1.7	1.8	.3	.0	.0	.0
49/49	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	11.3	25.2	12.4	11.2	12.6	17.0	4.3	3.8	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	74	70	68	62	54	50	48	61.6	2031
06009	78	70	68	61	53	48	45	60.9	1234
12015	82	73	70	63	53	51	46	63.2	2178
18021	79	74	71	64	53	51	46	63.8	1223
TOT	82	72	70	63	54	50	45	62.4	6666

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	4.4	11.9	18.2	33.4	32.0		82	362	
06009	.0	3.9	11.7	19.3	30.0	34.8		43	333	
12015	.0	3.2	17.9	19.8	31.0	26.1		80	364	
18021	.0	7.1	12.6	23.6	30.4	24.2		79	326	
TOT	0	71	188	287	433	406		41	1383	

SEPTEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973

AREA 0011 PORTO ALEGRE
30.65 49.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	TOT	N FOG	NO FOG
48	52	56	60	64	68	72	76	80				
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.1	.0	.0	4	.0	.3
11/13	.0	.0	.0	.0	.1	.2	.1	.1	.0	8	.0	.3
9/10	.0	.0	.0	.0	.3	.4	.1	.1	.0	17	.0	1.1
7/8	.0	.0	.0	.0	1.1	.7	.5	.1	.0	37	.0	2.3
6	.0	.0	.0	.0	.3	.7	.5	.2	.0	36	.0	2.4
5	.0	.0	.1	.3	.9	1.4	.3	.1	.0	49	.0	3.2
4	.0	.0	.3	1.0	1.4	1.9	.9	.1	.0	83	.1	3.4
3	.0	.1	.2	.7	2.7	2.3	.7	.1	.0	101	.1	6.6
2	.0	.1	.5	2.3	4.2	3.8	1.1	.1	.0	182	.7	11.4
1	.0	.4	1.9	3.6	2.8	1.4	.1	.0	.0	153	.3	9.8
0	.0	.7	1.3	4.3	3.3	1.3	.0	.0	.0	174	.1	11.4
-1	.0	.9	1.8	2.9	3.0	1.1	.1	.0	.0	143	.2	9.4
-2	.0	.3	.9	3.2	2.8	.2	.0	.0	.0	139	.2	9.0
-3	.0	.1	.7	2.3	2.1	.1	.0	.0	.0	99	.1	6.4
-4	.0	.3	.6	1.3	1.2	.0	.0	.0	.0	77	.3	4.8
-5	.0	.1	.8	1.3	.7	.1	.0	.0	.0	74	.2	4.7
-6	.0	.1	.4	.9	1.1	.2	.0	.0	.0	41	.1	2.7
-7/-8	.1	.2	.8	1.4	1.4	.1	.0	.0	.0	60	.1	3.8
-9/-10	.0	.1	.3	.7	.3	.0	.1	.0	.0	20	.0	1.3
-11/-12	.0	.2	.1	.0	.1	.0	.0	.0	.0	7	.1	.4
-13/-14	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	22	114	282	319	139	16	1		1508	38	1470
PCT	.1	1.3	7.6	18.7	34.4	27.7	9.0	1.1	.1	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1962-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.2	.0	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.6
1-2	.2	2.2	1.1	.0	.0	.7	3.3	.4	2.4	1.3	.0	.0	.0	4.3
3-4	.0	.8	2.0	.0	.0	.5	2.8	.0	2.2	3.7	.4	.0	.0	8.3
5-6	.0	.2	1.4	.2	.0	.0	2.1	.0	.9	4.9	1.2	.0	.0	7.0
7	.0	.2	1.0	.7	.0	.0	1.9	.0	.1	2.0	2.1	.2	.0	4.3
8-9	.0	.0	.0	.7	.0	.0	.9	.0	.2	.4	1.0	.0	.0	1.6
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	2.6	2.0	.0	.0	11.3	.8	6.3	16.8	3.3	.2	.0	27.4

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.2	.0	.0	.0	.0	.2	.4	.7	.0	.0	.0	.0	1.1
1-2	.2	1.8	1.4	.0	.0	.0	3.4	.4	1.4	.9	.0	.0	.0	2.7
3-4	.2	1.1	3.2	.2	.0	.0	4.8	.1	1.0	1.3	.0	.0	.0	2.1
5-6	.0	.8	.9	.0	.0	.0	1.7	.0	.2	1.3	.0	.0	.0	1.3
7	.0	.0	.4	.8	.0	.0	1.0	.0	.0	.9	.2	.0	.0	1.1
8-9	.0	.0	.2	.4	.0	.0	.6	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	6.2	1.1	.2	.0	11.8	.9	3.3	4.3	.8	.0	.0	9.3

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER
TABLE 18 (CONT)AREA 0011 PORTO ALEGRE
20.05 -9.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.2	2.1	.3	.0	.0	.0	2.6	
3-4	.2	2.2	2.1	.0	.0	.0	4.4	.0	2.0	4.8	.3	.0	.0	7.3	
5-6	.0	.0	1.0	.3	.0	.0	1.3	.0	.4	2.1	2.2	.0	.0	4.7	
7	.0	.0	.3	.2	.0	.0	.3	.0	.0	1.2	1.1	.2	.0	2.5	
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.8	.3	.2	.0	1.3	
10-11	.0	.0	.0	.7	.0	.0	.7	.0	.0	.8	.4	.0	.0	.4	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.2	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.7	3.9	1.9	.0	.0	10.6	.4	4.7	9.3	4.8	.8	.0	19.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.7	
1-2	.0	.4	.2	.0	.0	.0	.6	.0	.5	.2	.0	.0	.0	.7	
3-4	.2	.4	.2	.0	.0	.0	1.0	.2	.5	.9	.0	.0	.0	1.3	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.2	.0	.0	.0	.4	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.3	1.3	1.1	.0	.0	4.1	.3	1.4	1.3	.4	.0	.0	3.5	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	3.2	.0	.0	.0	.0	6.9	
1-2	1.8	13.2	6.1	.0	.0	.0	21.1	
3-4	.8	9.9	19.6	1.2	.0	.0	31.6	
5-6	.0	2.4	12.8	4.0	.0	.0	19.2	
7	.0	.2	6.1	3.1	.0	.0	11.7	
8-9	.0	.2	1.6	3.0	.2	.0	5.1	
10-11	.0	.0	.2	2.0	.0	.0	2.2	
12	.0	.2	.0	.6	.0	.0	.8	
13-16	.0	.0	.0	.8	.4	.0	1.2	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	29.4	46.4	16.8	1.2	.0	100.0	494

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	6.8	11.8	4.7	3.3	1.1	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	323	4
6-7	.0	1.5	5.1	9.9	7.1	2.9	1.6	.6	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	308	6
8-9	.0	.1	1.3	4.3	5.0	3.0	1.8	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	7
10-11	.0	.1	.4	.6	1.3	2.0	.3	.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	84	9
12-13	.0	.0	.1	.4	.1	.3	.1	.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	11
>13	.0	.0	.0	.3	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
INDET	1.0	1.3	2.9	2.8	1.6	.8	.6	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	124	3
TOTAL	3.3	10.8	22.6	24.1	19.8	10.4	5.4	2.7	4.0	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	1037	6
PCT	3.2	10.1	21.6	23.2	19.1	10.0	5.2	2.6	3.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1962-1975AREA 0011 PORTO ALEGRE
30.83 49.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.1	.5	.5	.0	.0	.0	.0	3.1	6.4	4.8	4.0	.0	3.8	.0	78.5
NE	3.8	2.2	1.3	.0	.0	.0	.0	7.3	3.2	1.4	2.4	.1	3.3	.1	82.2
E	4.7	2.2	2.3	.0	.0	.0	.0	9.0	3.1	.9	1.4	.3	.9	.3	82.4
SE	1.0	2.3	2.6	.0	.0	.0	.0	3.9	2.0	.0	2.0	.0	.3	.0	89.3
S	4.0	1.0	1.3	.0	.0	.0	.0	4.3	3.3	.4	2.8	.4	.6	.0	86.2
SW	2.7	2.9	1.3	.0	.0	.0	.0	8.8	2.4	.3	1.3	.0	.3	.0	88.8
W	.9	2.1	2.8	.0	.0	.0	.0	6.0	.9	1.3	.0	1.3	.0	.0	90.8
NW	4.0	.0	4.0	.0	.0	.0	.0	6.1	4.3	4.3	.0	.0	3.0	.0	77.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	.0	.0	5.9	.0	.0	.0	.0	3.9	.0	.0	11.8	3.9	.0	.0	76.3
TOT PCT	3.2	2.0	1.8	.0	.0	.0	.0	6.7	3.4	1.2	2.2	.2	1.7	.1	84.8
TOT OBS:	1828														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZS PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	3.6	1.8	1.8	.0	.0	.0	.0	6.6	1.8	2.8	1.2	.2	1.4	.0	86.2
0600Z	4.2	2.3	1.9	.0	.0	.0	.0	8.4	4.7	1.9	1.4	.0	1.2	.0	82.4
1200Z	2.6	2.0	1.8	.0	.0	.0	.0	8.0	3.0	.2	4.4	.4	1.8	.0	84.4
1800Z	2.9	1.8	2.0	.0	.0	.0	.0	8.6	4.3	.0	2.3	.2	2.3	.2	83.7
TOT PCT TOT OBS:	3.3 1868	1.9	1.8	.0	.0	.0	.0	6.9	3.4	1.2	2.4	.2	1.7	.1	84.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12
N	.5	2.5	3.4	1.7	.2	.1		6.6	15.4		4.0	7.1	8.4	20.4	10.4
NE	.8	7.3	13.4	4.8	.4	.0		26.7	19.0		26.5	28.4	28.0	13.7	27.0
E	.0	6.3	8.0	2.1	.4	.0		15.6	13.3		16.4	16.3	1.3	13.7	14.3
SE	.9	8.2	3.5	1.4	.3	.0		12.3	12.1		13.0	12.8	1.9	8.9	11.4
S	.7	9.7	4.9	1.2	.1	.0		11.4	12.3		14.0	12.0	13.6	8.9	10.7
SW	.0	4.0	6.2	3.4	1.0	.2		15.4	17.4		14.3	12.8	14.3	20.4	19.7
W	.2	1.3	1.6	.0	.3	.1		4.7	17.4		3.3	4.8	4.8	3.7	9.6
NW	.2	1.7	.8	.2	.1	.0		3.1	11.3		2.7	3.6	2.9	2.7	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0
CALN	2.0							.0	.0		.0	.0	.0	.0	.0
TOT OBS	442	2380	2772	1079	204	28	6907		14.2		1281	840	1284	27	1254
TOT PCT	4.4	34.3	40.1	15.4	3.0	.4		100.0			100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	1.4	3.4	3.0	.6	.1		8.6	15.4	4.8	8.7	10.4
NE	3.3	12.2	9.4	1.3	.1		26.7	19.0	27.3	27.8	25.7
E	2.8	8.2	3.4	.9	.1		15.6	13.3	16.4	15.9	14.6
SE	3.6	3.8	2.0	.9	.1		12.3	12.1	13.3	11.9	11.4
S	2.8	6.0	2.4	.5	.0		11.4	12.3	13.2	11.6	10.2
SW	2.1	3.4	3.3	2.1	.3		13.4	17.4	13.8	14.4	16.3
W	.9	1.7	1.3	.6	.3		4.7	17.4	3.6	4.7	5.8
NW	1.0	1.5	.4	.2	.0		3.1	11.3	3.1	2.9	3.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALN	2.0						.0	.0	2.4	2.2	2.0
TOT OBS	1256	3052	1915	301	83	6907		14.2	2091	1283	2240
TOT PCT	19.6	44.2	27.7	7.3	1.2		100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1862-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.4	4.1	35.7	38.5	16.0	3.2	.2	14.1	100.0	2091
0600	2.2	4.4	34.5	41.3	14.7	2.5	.4	14.0	100.0	1283
1200	2.0	4.8	33.9	39.4	16.0	3.3	.6	14.4	100.0	2260
1800	1.1	4.1	33.4	43.0	13.4	2.6	.4	14.2	100.0	1273
TOT	138	304	2380	2772	1079	208	28	14.2		6907
PCT	2.0	4.4	34.5	40.1	15.6	3.0	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	2.8	1.4	2.5	2.4		4.6
NE	0.8	4.3	7.8	0.5		4.4
E	4.6	2.2	4.2	4.2		4.6
SE	3.8	1.8	3.2	1.7		4.3
S	4.3	1.5	3.5	2.9		4.2
SW	5.7	1.2	3.5	2.3		4.0
W	3.1	1.2	1.1	.8		3.6
NW	1.7	.4	.5	1.1		4.3
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.1	.4		4.3
TOT OBS	433	217	381	308	1339	4.3
TOT PCT	33.6	16.0	28.2	23.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	100	300	400	1000	2000	3000	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.3	.8	.9	.7	.7	.1	.1	.1	5.1	
NE	.3	.2	.5	2.1	2.7	1.3	1.5	.8	.3	.3	17.8	
E	.4	.1	.2	1.5	2.5	1.1	.3	.1	.1	.1	8.9	
SE	.1	.1	.1	.5	1.1	1.0	.4	.1	.2	.1	6.9	
S	.2	.0	.2	.6	1.8	.9	.8	.2	.1	.1	8.0	
SW	.2	.1	.5	1.6	1.6	1.0	.5	.3	.0	.0	10.7	
W	.1	.0	.1	.1	.3	.1	.2	.1	.0	.0	3.1	
NW	.1	.0	.1	.3	.4	.1	.3	.1	.8	.0	1.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.6	
TOT OBS	20	6	28	103	134	85	63	24	11	5	282	1339
TOT PCT	1.5	.4	2.1	7.6	11.5	6.3	4.7	1.8	.8	.4	83.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3 1/2	>3	>2 1/2	>2
> OR = 3000	.5	1.0	1.1	1.2	1.2	1.2	1.2	1.2
> OR = 2000	1.5	2.6	2.8	2.9	2.9	2.9	2.9	2.9
> OR = 1500	4.6	7.0	7.3	7.6	7.6	7.6	7.6	7.6
> OR = 1000	8.8	12.3	13.6	13.9	13.9	13.9	14.0	14.0
> OR = 500	15.7	23.1	25.0	25.3	25.3	25.4	25.4	25.4
> OR = 300	20.0	29.9	32.4	32.8	32.8	32.8	33.0	33.0
> OR = 200	21.2	31.5	34.3	34.8	34.8	34.9	35.0	35.0
> OR = 150	21.3	31.9	34.8	35.3	35.3	35.4	35.6	35.6
> OR = 0	21.6	32.3	35.8	36.4	36.4	37.0	37.2	37.2
TOTAL	294	443	488	496	499	504	508	508

TOTAL NUMBER OF OBS: 1364

PCT FREQ NM <5/8: 62.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CO	TOTAL OBS
10.8	14.3	10.4	8.2	8.9	9.8	8.0	8.4	16.0	1.2	1468

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PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1962-1973AREA 0011 PORTO ALEGRE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.1	.0	.1	.0	.1	.0	.0	.4	
	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1	.4	
	TOT %	.0	.3	.1	.1	.1	.1	.0	.1	.0	.1	.8	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.3	.2	.1	.1	.1	.0	.1	.0	.0	.8	
	TOT %	.0	.4	.3	.1	.1	.1	.0	.1	.0	.0	1.1	
2<5	PCP	.1	.2	.3	.2	.2	.2	.0	.0	.0	.0	1.2	
	NO PCP	.3	.7	.5	.3	.6	.3	.2	.2	.0	.1	3.2	
	TOT %	.4	.9	.8	.5	.8	.5	.2	.2	.0	.1	4.4	
5<10	PCP	.2	1.4	.7	.4	.3	.0	.2	.1	.0	.1	4.1	
	NO PCP	2.8	7.1	3.6	2.7	2.9	3.4	1.2	.4	.0	.2	23.6	
	TOT %	3.0	8.5	4.3	3.1	3.4	4.0	1.4	.5	.0	.2	27.7	
10+	PCP	.0	.2	.2	.0	.1	.2	.0	.1	.0	.0	.8	
	NO PCP	9.3	18.7	9.3	7.0	9.0	12.2	2.7	1.9	.0	.0	64.8	
	TOT %	9.3	18.9	9.5	7.1	9.1	12.5	2.7	2.0	.0	.0	65.7	
TOT OBS													1826
TOT PCT		9.3	27.1	19.1	10.9	13.5	17.2	4.4	2.7	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.1	.0	.1	.0	.1	.0	.1	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	11-21	.1	.2	.1	.0	.1	.1	.0	.1	.0	.0	.7	
	22+	.0	.1	.1	.0	.0	.1	.1	.1	.0	.0	.4	
	TOT %	.1	.4	.2	.1	.2	.2	.2	.2	.0	.0	1.5	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.3	.2	.3	.3	.1	.1	.1	.0	.1	1.6	
	11-21	.3	.4	.2	.2	.2	.2	.0	.0	.0	.0	1.6	
	22+	.2	.6	.3	.1	.1	.1	.2	.0	.0	.0	1.9	
	TOT %	.7	1.3	.7	.7	.6	.4	.3	.2	.0	.1	4.9	
5<10	0-3	.0	.1	.2	.2	.2	.0	.1	.0	.0	.2	1.0	
	4-10	.0	1.7	1.2	1.7	1.9	.3	.3	.3	.0	.0	7.3	
	11-21	1.1	2.9	1.3	.7	1.1	1.3	.4	.1	.0	.0	10.1	
	22+	.7	2.5	.7	.5	.4	1.1	.4	.1	.0	.0	6.4	
	TOT %	2.6	6.2	3.4	3.0	3.6	3.4	1.2	.8	.0	.2	25.1	
10+	0-3	.4	.6	.3	.2	.4	.3	.2	.0	.0	1.3	3.9	
	4-10	1.8	3.8	4.4	4.3	4.0	2.9	1.2	1.3	.0	.0	25.3	
	11-21	2.4	9.3	4.1	2.2	4.1	3.2	1.1	.5	.0	.0	28.9	
	22+	.8	2.3	.7	.4	.7	3.2	.8	.1	.0	.0	9.0	
	TOT %	5.3	17.7	9.8	7.1	9.3	11.3	3.3	1.9	.0	1.3	67.2	
TOT OBS													3440
TOT PCT		8.9	28.0	14.1	11.1	12.7	15.6	5.0	2.8	.0	1.7	100.0	

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 (OVER-ALL) 1962-1973

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TABLE 10

 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
 OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.9	.3	2.3	7.0	10.5	5.2	4.1	1.2	1.2	.6	33.1	66.9	344				
06009	3.0	.0	2.1	7.0	11.6	5.2	3.2	1.5	.0	.0	33.6	64.4	329				
12015	1.1	.6	2.8	8.6	11.3	7.2	3.6	1.1	1.1	.3	37.8	62.2	362				
18021	1.6	.6	.8	7.1	11.4	7.4	3.7	3.0	.8	.3	39.2	60.8	367				
TOT	23	7	28	104	137	88	65	24	11	3	312	690	1402				
PCT	1.6	.5	2.0	7.4	11.2	6.3	4.6	1.7	.8	.4	36.5	63.5	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.6	.6	1.3	4.8	25.9	66.8	1080
06009	1.1	.5	1.2	5.9	25.8	65.5	751
12015	1.0	.7	1.7	4.1	25.3	67.1	1099
18021	1.1	.5	1.9	3.8	25.3	67.4	754
TOT	34	22	50	185	927	2456	3680
PCT	.9	.6	1.5	5.0	25.2	68.7	100.0

TABLE 12

 CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
 CEILING HGT (FEET/NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<400 CL	<1000 CS	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
00003	.9	3.6	12.8	21.8	65.4	333
06009	3.2	6.0	16.7	21.5	61.8	317
12015	1.1	5.4	16.6	22.4	60.8	352
18021	1.7	3.6	14.4	26.4	59.2	360
TOT	23	63	207	315	841	1364
PCT	1.7	4.6	13.2	23.1	61.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.1	.0	.0	.1	.1	.0	.0	3	.2
75/79	.0	.0	.0	.1	.2	.1	.4	.0	12	.9
70/74	.0	.0	.1	.4	1.7	2.3	4.0	2.9	169	12.2
65/69	.0	.0	.3	1.4	3.3	9.0	13.6	13.6	601	43.4
60/64	.0	.0	.1	2.1	4.3	8.9	9.0	7.7	473	34.1
55/59	.0	.0	.0	.6	1.7	3.0	1.9	1.2	117	8.4
50/54	.0	.0	.0	.1	.2	.1	.4	.0	11	.8
TOTAL	.0	.1	.9	4.7	21.6	32.8	41.4	35.1	1366	100.0
PCT	.0	.1	.6	4.8	13.6	23.7	29.9	25.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0
75/79	.1	.4	.0	.0	.1	.1	.0	.0	.0	.0
70/74	1.4	3.2	1.7	2.1	.8	.6	.7	.9	.0	.0
65/69	4.7	16.9	3.9	3.7	4.0	4.9	2.1	1.0	.0	.2
60/64	1.4	6.4	7.0	4.7	6.0	8.1	1.3	.9	.0	.4
55/59	.2	.3	.4	.7	1.8	4.3	.5	.1	.0	.1
50/54	.0	.0	.0	.1	.2	.4	.1	.0	.0	.0
TOTAL	7.8	29.4	15.0	10.0	12.9	16.6	4.7	2.8	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	72	70	64	56	52	46	63.7	2086
06009	75	72	69	63	55	52	47	63.0	1289
12015	82	75	72	64	58	54	48	63.5	2203
18021	82	77	73	67	54	53	50	64.4	1234
TOT	82	74	72	65	57	53	46	64.7	6812

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	19.3	22.3	30.8	29.2	81	386		
06009	.0	3.0	14.0	19.6	31.4	30.1	81	322		
12015	.0	3.6	19.2	26.9	26.3	26.1	79	376		
18021	.0	6.4	19.0	25.1	31.3	17.3	77	323		
TOT	0	77	219	331	420	360	80	1467		

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1967-1975

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	WD FOG
23/28	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.0	.1	.2	.3	.1	.1	14	.0	.9
9/10	.0	.0	.0	.1	.2	.1	.0	.2	.0	10	.0	.6
7/8	.0	.0	.0	.4	.6	.4	.7	.1	.0	36	.2	2.0
6	.0	.0	.0	.2	.6	.7	.3	.0	.0	30	.1	1.8
5	.0	.0	.1	.7	1.2	1.0	.6	.1	.0	57	.1	3.4
4	.0	.0	.2	.7	1.8	1.9	.2	.1	.0	79	.2	4.7
3	.0	.0	.4	1.1	2.3	1.5	.2	.0	.0	91	.3	5.4
2	.0	.2	.4	2.6	4.1	2.0	.2	.0	.0	156	.3	9.3
1	.0	.1	.6	2.8	4.4	2.6	.2	.0	.0	174	.4	10.3
0	.0	.2	.9	3.7	5.4	1.7	.1	.0	.0	197	.2	11.9
-1	.0	.0	.7	2.6	4.1	1.4	.1	.0	.0	144	.1	8.7
-2	.1	.1	1.2	3.0	4.1	.9	.0	.0	.0	131	.2	9.0
-3	.0	.2	1.0	3.1	2.8	.6	.1	.0	.0	125	.1	7.6
-4	.1	.3	1.3	3.0	1.4	.4	.0	.0	.0	110	.1	6.7
-5	.1	.1	.6	2.0	1.4	.1	.0	.0	.0	69	.0	4.2
-6	.0	.3	1.3	1.1	.7	.1	.0	.0	.0	60	.1	3.6
-7/-8	.0	.2	1.0	2.2	.7	.0	.0	.0	.0	67	.0	4.1
-9/-10	.0	.4	.7	.8	.2	.0	.0	.0	.0	33	.0	2.2
-11/-13	.1	.1	.2	.1	.0	.0	.0	.0	.0	6	.0	.6
-14/-16	.0	.2	.1	.0	.0	.0	.0	.0	.0	6	.1	.3
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	4	48	179	490	586	294	90	2	2	1625	37	1388
PCT	.2	3.0	11.0	30.2	36.1	19.8	3.1	.7	.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.2	.0	.0	.0	.0	.4	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	.3	.0	.0	.0	1.9	1-2	.0	3.0	2.3	.0	.0	.0	5.3
3-4	.0	.5	1.3	.4	.0	.0	2.3	3-4	.0	1.7	4.0	.3	.0	.0	9.9
5-6	.0	.3	1.2	.3	.0	.0	1.8	5-6	.0	.9	3.6	.8	.0	.0	6.4
7	.0	.1	.9	.4	.0	.0	1.4	7	.0	.2	1.4	.8	.0	.0	2.3
8-9	.0	.1	.0	.4	.0	.0	.4	8-9	.0	.2	1.1	.6	.0	.0	1.9
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.4	.2	.0	.0	.8
12	.0	.0	.0	.3	.0	.0	.3	12	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.1	.0	.0	.0	.1	13-16	.0	.2	.9	.4	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.5	4.2	2.0	.0	.0	8.8	TOT PCT	.4	3.3	10.8	4.3	.0	.0	28.8

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.7	.0	.0	.0	.0	.8	41	.3	.6	.0	.0	.0	.0	.4
1-2	.2	3.2	1.4	.0	.0	.0	4.8	1-2	.2	2.2	.2	.0	.0	.0	2.6
3-4	.0	1.0	2.4	.2	.0	.0	3.6	3-4	.0	2.0	2.3	.0	.0	.0	4.3
5-6	.0	.3	1.6	.3	.0	.0	2.2	5-6	.0	.6	2.2	.2	.0	.0	3.0
7	.0	.0	.8	.6	.0	.0	1.4	7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.4	.3	.0	.0	.9	8-9	.0	.9	.4	.2	.0	.0	.6
10-11	.0	.0	.1	.0	.0	.0	.1	10-11	.0	.9	.0	.0	.0	.0	.9
12	.0	.0	.0	.0	.4	.0	.4	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	4.7	2.0	.4	.0	14.8	TOT PCT	.4	3.3	3.3	.4	.0	.0	11.6

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TABLE 10 (CONT)

MGT	S					PCT	SW					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.3	.3	.0	.0	.0	.0	.4	.8	.0	.0	.0	1.1
1-2	.4	1.8	.3	.0	.0	2.3	.2	1.3	1.3	.0	.0	2.8
3-4	.2	1.2	1.5	.1	.0	3.0	.0	1.7	1.6	.0	.0	3.3
5-6	.0	1.3	2.7	.9	.0	5.0	.0	.3	2.6	2.1	.0	5.0
7	.0	.0	.4	.2	.1	.0	.0	.4	.4	1.5	.2	2.5
8-9	.0	.1	.0	.1	.0	.3	.0	.0	.0	.0	.0	.6
10-11	.0	.1	.0	.1	.0	.3	.0	.0	.0	.4	.7	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.8	9.0	1.8	.1	12.3	.6	4.4	6.0	3.2	1.8	17.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MOY	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT CNS
<1	2.9	2.5	.0	.0	.0	.0	5.4	
1-2	1.1	14.3	6.6	.0	.0	.0	22.2	
3-4	.2	6.8	17.4	1.1	.0	.0	27.4	
5-6	.0	3.0	18.1	4.7	.0	.0	23.6	
7	.0	.7	4.3	3.8	.4	.0	9.1	
8-9	.0	.4	1.8	2.3	.0	.0	4.7	
10-11	.2	.4	.3	.9	.7	.0	2.7	
12	.0	.0	.0	1.6	.3	.0	2.3	
13-16	.2	.2	.2	.9	.3	.0	2.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.7	.2	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-46	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	30.3	47.1	15.8	2.2	.0	100.0	558

PERIOD: (OVER-ALL) 1949-1975

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

NOVEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1860-1975

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	GRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OS TIME	PCPN PAST HOUR	THOR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	2.7	.6	.6	.0	.0	.0	.0	3.8	1.6	3.4	4.7	.0	1.3	.0	86.6	
NE	1.3	1.2	.8	.0	.0	.0	.0	3.3	.8	1.0	2.4	.2	1.4	.0	91.0	
E	1.3	1.4	2.3	.0	.0	.0	.3	3.4	.9	.0	.3	.0	1.2	.0	92.2	
SE	1.1	1.1	1.1	.0	.0	.0	.0	3.4	2.0	.4	.6	.0	.4	.0	93.2	
S	1.3	1.2	.7	.0	.0	.0	.0	3.4	1.4	.7	2.1	.0	1.2	.0	91.2	
SW	2.2	1.3	.6	.0	.0	.0	.0	3.4	1.3	1.3	.3	.0	.6	.0	90.6	
W	1.8	1.8	1.8	.0	.0	.0	.0	3.3	.0	3.7	3.2	.0	1.8	.0	89.8	
NW	7.4	2.3	4.9	.0	.0	.0	.0	14.6	.0	3.7	.0	.0	.0	.0	81.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	95.0
TOT PCT	1.9	1.2	1.2	.0	.0	.0	.1	4.3	1.2	1.1	1.8	.1	1.1	.0	90.8	
TOT OBS:	1879															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	GRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OS TIME	PCPN PAST HOUR	THOR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	1.7	2.1	1.7	.0	.0	.0	.2	3.6	.8	2.9	1.0	.0	1.0	.0	89.2	
0600	2.9	1.6	1.1	.0	.0	.0	.0	3.2	2.3	2.9	1.1	.0	.3	.0	89.9	
1200	1.7	.9	.7	.0	.0	.0	.0	3.3	1.1	.2	2.6	.2	1.3	.0	91.6	
1800	1.7	.6	1.3	.0	.0	.0	.0	3.3	.9	.2	2.6	.0	1.3	.0	91.6	
TOT PCT	2.6	1.2	1.2	.0	.0	.0	.1	4.4	1.2	1.3	1.9	.1	1.0	.0	90.4	
TOT OBS:	1929															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+				00	03	06	09	12	15	18	21
N	.7	3.4	4.4	1.7	.3	.0					10.7	14.2		7.9	10.9	12.2	10.4	12.4	12.8	8.7	10.2
NE	.9	8.9	13.6	4.9	.3	.0					30.4	14.7		20.9	31.7	29.8	35.4	31.3	29.7	29.9	30.0
E	.9	9.3	9.6	.9	.1	.0					19.6	11.6		15.6	14.0	13.9	20.4	11.8	10.7	15.4	15.3
SE	.9	5.9	4.9	1.2	.1	.0					12.9	11.7		14.6	14.2	12.9	12.8	11.6	11.2	13.4	12.7
S	.8	5.0	8.7	1.3	.3	.0					12.7	13.1		10.1	11.4	11.4	7.9	10.6	12.4	14.1	12.7
SW	.8	3.3	4.9	2.1	.3	.1					11.1	12.2		10.0	9.8	10.7	6.7	12.0	12.2	11.9	9.9
W	.9	1.2	1.2	.6	.1	.0					3.3	14.2		2.6	2.7	3.3	1.3	4.6	4.6	3.1	3.0
NW	.4	1.6	1.1	.3	.1	.0					3.4	11.3		2.1	3.2	3.6	2.1	4.2	4.7	2.9	2.8
VAR	.0	.0	.0	.0	.0	.0					.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7					.0					1.7	.0		1.3	2.0	2.4	3.3	1.3	1.9	.0	1.7
TOT OBS	456	2466	3012	961	110	9					6965	13.3		1232	1044	1232	68	1273	1048	1210	39
TOT PCT	6.6	33.4	43.2	12.9	1.7	.1					100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	41+	41+	41+	41+	41+				00	03	06	09	12
N	2.8	4.8	3.2	.7	.0						10.7	14.2		9.1	12.1	12.5	8.7	
NE	3.7	14.5	10.6	1.3	.1						30.4	14.7		20.9	30.1	30.7	30.2	
E	2.1	7.6	2.3	.4	.0						13.6	11.6		14.0	13.8	11.3	12.4	
SE	2.6	6.7	2.3	.4	.0						12.9	11.7		14.4	12.9	11.4	13.4	
S	2.4	6.7	2.9	.3	.1						12.7	13.1		14.2	11.2	11.3	14.1	
SW	1.7	4.8	3.6	.8	.2						11.1	13.2		9.9	10.9	12.1	11.6	
W	.8	1.4	.9	.4	.0						3.3	14.2		2.6	2.2	4.4	3.1	
NW	1.0	1.6	.3	.2	.0						3.4	11.3		2.3	3.7	4.4	2.3	
VAR	.0	.0	.0	.0	.0						.0	.0		.0	.0	.0	.0	
CALM	1.7				.0						1.7	.0		1.7	2.4	1.6	.9	
TOT OBS	1381	2346	1841	340	37						6965	13.3		2077	1292	2318	1278	
TOT PCT	19.6	48.0	26.7	4.9	.3						100.0			100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1860-1975

AREA 0011 PORTO ALEGRE
30.05 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.7	4.1	35.7	42.4	14.6	1.4	.1	13.3	100.0	2077
0600Z	2.4	5.0	36.5	42.8	11.7	1.3	.1	13.0	100.0	1292
1200Z	1.6	6.1	39.3	42.1	12.4	2.3	.2	13.9	100.0	2314
1800Z	.9	4.0	34.0	47.3	12.4	1.3	.2	13.4	100.0	1278
TOT	1.3	3.4	34.6	30.2	90.1	11.9	.9	13.3		6969
PCT	1.7	4.9	35.4	43.2	12.9	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN
				OBS	OBS	CLOUD COVER
N	3.4	.9	1.7	2.4		4.3
NE	12.7	4.4	3.6	5.1		3.9
E	3.7	3.0	3.9	3.4		4.2
SE	4.7	3.0	3.1	2.3		4.3
S	4.3	3.0	3.7	1.9		3.9
SW	5.3	2.1	2.9	2.1		4.2
W	1.6	.3	.4	.3		3.0
NW	1.3	.3	.1	.3		2.8
VAR	.0	.0	.0	.0		.0
CALM	.6	.1	.2	.1		2.5
TOT OBS	32.3	24.0	34.6	29.1	1302	4.0
TOT PCT	38.0	17.4	26.5	18.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.1	.0	.2	.9	.8	.5	.3	.1	.3	.0	3.4	
.2	.1	.3	1.7	3.1	1.7	1.7	1.0	.3	.0	20.9	
.1	.0	.1	1.0	2.1	1.2	.7	.1	.0	.1	10.6	
.2	.1	.2	1.2	1.8	1.2	.4	.1	.1	.1	10.0	
.2	.0	.3	.8	1.4	1.4	.3	.0	.1	.0	8.3	
.2	.0	.2	.6	1.7	.8	.3	.1	.1	.0	6.6	
.1	.0	.0	.1	.3	.1	.1	.1	.0	.0	2.2	
.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	1.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.9	
19	2	16	89	133	97	34	22	11	2	921	1362
1.1	.1	1.2	6.4	11.1	7.0	3.9	1.6	.8	.1	66.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

	CEILING (FEET)	>10	>5	>2	VSBY (NM)	>1	>1/2	>1/4	>500	>0
> OR										
> OR	24500	.6	.9	.9	.9	.9	.9	.9	.9	.9
> OR	25000	1.6	2.3	2.4	2.3	2.6	2.6	2.6	2.6	2.6
> OR	25500	4.1	5.6	6.2	6.3	6.6	6.6	6.6	6.6	6.6
> OR	26000	9.2	12.1	13.2	13.6	13.7	13.7	13.7	13.7	13.7
> OR	26500	17.1	22.1	24.1	24.8	24.7	24.7	24.8	24.8	24.8
> OR	27000	21.3	28.1	30.6	31.0	31.2	31.2	31.3	31.3	31.3
> OR	27500	22.0	29.2	31.6	32.1	32.3	32.4	32.4	32.4	32.4
> OR	28000	22.0	29.2	31.7	32.3	32.4	32.4	32.4	32.4	32.4
> OR	28500	22.1	29.3	32.3	32.8	33.2	33.3	33.3	33.3	33.3
TOTAL		311	415	484	462	467	471	473	473	473

TOTAL NUMBER OF OBS: 1400

PCT FREQ NM <5/8: 66.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
											OBS
	19.2	17.6	12.6	9.1	7.7	6.3	6.1	7.3	12.0	1.0	1303

NOVEMBER

PERIOD: (PRIMARY) 1913-1975
(OVER-ALL) 1880-1975

TABLE 8

AREA 0011 PORTO ALEGRE
30.65 49.04

PERCENT PROB OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.2	.3	.1	.0	.0	.1	.0	.0	.0	.7	
	NO PCP	.4	1.0	.4	.2	.4	.2	.2	.0	.0	.1	3.0	
	TOT %	.4	1.2	.7	.3	.4	.2	.2	.1	.0	.1	3.7	
5<10	PCP	.3	.5	.4	.2	.3	.3	.2	.3	.0	.0	2.1	
	NO PCP	3.0	6.9	3.1	3.3	2.5	1.9	.3	.4	.0	.2	22.0	
	TOT %	3.2	7.2	3.5	3.7	2.8	2.2	.7	.7	.0	.2	24.1	
10+	PCP	.0	.2	.1	.2	.3	.3	.0	.0	.0	.0	.6	
	NO PCP	8.4	21.1	11.8	10.8	9.3	7.7	2.0	1.4	.0	.7	70.2	
	TOT %	8.4	21.2	11.9	11.0	9.4	8.0	2.0	1.4	.0	.7	71.0	
TOT OBS													1876
TOT PCT		9.4	30.3	16.1	15.1	12.6	10.4	2.9	2.2	.0	1.1	100.0	

TABLE 9

PERCENT PROB OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.3	.2	.1	.1	.1	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.8	
	11-21	.4	.7	.6	.2	.1	.1	.0	.0	.0	.0	2.0	
	22+	.0	.3	.3	.1	.1	.0	.0	.0	.0	.0	.9	
	TOT %	.5	1.3	.8	.3	.4	.2	.2	.1	.0	.1	3.9	
5<10	0-3	.1	.2	.0	.0	.1	.1	.0	.0	.0	.2	.7	
	4-10	.9	1.7	1.2	1.2	1.0	.8	.2	.3	.0	.0	6.9	
	11-21	1.2	3.0	1.4	1.2	1.1	.7	.2	.3	.0	.0	9.7	
	22+	.3	1.6	.4	.4	.3	.1	.0	.0	.0	.0	4.0	
	TOT %	2.7	7.1	3.0	2.7	2.4	2.0	.6	.6	.0	.2	21.2	
10+	0-3	.4	.9	.7	.6	.4	.2	.2	.2	.0	.9	4.4	
	4-10	2.6	7.0	3.2	4.8	3.6	4.8	.8	1.1	.0	.0	28.1	
	11-21	2.9	11.5	4.8	3.9	4.2	4.6	.9	.6	.0	.0	33.2	
	22+	.7	2.8	.3	.6	.7	1.9	.6	.1	.0	.0	7.5	
	TOT %	6.6	21.9	11.0	9.9	9.0	9.3	2.4	2.0	.0	.9	73.2	
TOT OBS													365
TOT PCT		9.9	31.0	13.2	13.1	11.9	11.8	3.2	2.7	.0	1.2	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1917-1975
(OVER-ALL) 1880-1975

AREA 0011 PDPTO ALEGRE
30.65 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	1.4	.0	1.7	5.9	10.4	5.6	3.6	1.4	1.1	.3	31.4	66.6	357					
0600	1.7	.0	.9	6.1	11.0	6.7	3.3	1.7	.3	.0	31.9	66.1	345					
1200	1.0	.3	1.0	3.6	11.6	7.6	4.3	1.3	1.0	.0	34.1	65.9	396					
1800	.0	.0	.8	7.5	9.1	7.6	4.0	1.9	.5	.3	31.9	66.1	373					
TOT	15	2	10	92	138	102	37	34	11	2	476	998	1471					
PCT	1.0	.1	1.1	6.3	10.5	6.9	3.9	1.0	.7	.1	32.4	67.6	100.0					

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.4	.4	1.0	2.8	23.6	71.9	1049
0600	.4	.7	.3	3.9	21.6	72.8	767
1200	.9	.3	1.2	4.0	21.0	72.7	1124
1800	.7	.1	1.2	3.3	19.0	74.7	768
TOT	22	13	37	143	788	2703	3708
PCT	.6	.4	1.0	3.9	21.3	72.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<1/2 <800	<1 <1000	<2 <1000	<5 <1000	NM <5/8 AND 5+	TOTAL OBS
0000	1.5	3.3	11.9	22.0	66.1	336
0600	1.8	3.3	12.4	21.5	66.2	331
1200	1.1	3.2	12.4	24.0	65.8	379
1800	.0	1.7	15.6	20.1	63.6	360
TOT	15	40	184	311	911	1406
PCT	1.1	2.8	13.1	22.1	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.2	.2	.1	.0	9	.6
75/79	.0	.0	.1	.4	.6	1.4	.6	.1	43	3.0
70/74	.0	.0	.2	1.3	3.0	7.2	9.3	8.3	429	30.1
65/69	.0	.0	.0	2.1	6.0	11.4	16.8	13.6	712	49.9
60/64	.0	.0	.4	1.2	4.1	8.6	4.2	1.9	208	14.4
55/59	.0	.0	.0	.1	.5	.8	.1	.2	25	1.8
50/54	.0	.0	.0	.0	.1	.1	.0	.0	3	.2
TOTAL	0	0	9	73	214	359	443	343	1426	100.0
PCT	.0	.0	.6	5.1	15.0	25.8	31.4	24.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.4	.1	.0	.1	.0	.0	.0	.0	.0
.6	1.3	.3	.2	.2	.2	.1	.0	.0	.0
3.5	12.8	4.5	2.2	2.0	2.5	.8	.8	.0	.6
4.0	10.3	8.6	5.9	4.3	4.9	1.4	1.1	.0	.6
.3	2.1	1.9	2.8	3.4	2.3	.8	.3	.0	.2
.0	.0	.1	.2	.4	.9	.1	.1	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
8.6	30.8	15.8	14.9	12.4	11.0	3.2	2.3	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	50%	1%	MIN	MEAN	TOTAL OBS
0000	80	75	72	68	61	57	54	67.2	7063
0600	77	73	72	67	60	56	53	66.5	1291
1200	85	78	78	69	62	58	52	69.0	2236
1800	84	81	77	70	65	60	55	70.1	1227
TOT	89	78	79	66	61	57	52	68.2	6617

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.1	13.0	21.9	33.7	27.3	81			336
0600	.0	3.0	10.3	20.1	37.7	28.9	82			331
1200	.0	7.8	14.5	24.1	27.8	24.1	79			379
1800	.0	7.9	21.2	29.4	38.4	19.2	76			360
TOT	0	83	220	345	454	348	80			1450

NOVEMBER

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1960-1973

TABLE 17

AREA 0011 PORTO ALEGRE
30.65 49.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	49 32	53 36	57 40	61 44	65 48	69 52	73 56	77 60	81 64	TOT	M FDR	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	2	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.1	9	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.2	.4	.0	19	.1	.8
7/8	.0	.0	.0	.1	.1	.4	.8	.2	.2	31	.1	1.8
6	.0	.0	.0	.1	.1	.4	.4	.1	.1	18	.1	1.0
5	.0	.0	.0	.1	1.1	1.1	.7	.4	.0	37	.0	3.4
4	.0	.0	.0	.2	1.4	2.2	.8	.1	.1	81	.1	4.8
3	.0	.0	.0	.2	1.3	2.1	1.2	.1	.0	84	.9	4.9
2	.0	.0	.1	.8	3.3	5.2	1.3	.0	.0	177	.4	10.3
1	.0	.0	.1	.8	4.7	8.6	1.1	.0	.0	218	.9	12.9
0	.0	.0	.1	1.8	5.2	8.3	1.1	.0	.0	289	.1	17.3
-1	.0	.1	.4	1.1	3.4	3.0	.7	.0	.0	178	.1	10.7
-2	.1	.1	.4	1.6	4.8	2.4	.1	.0	.0	156	.0	9.4
-3	.0	.1	.6	1.9	3.3	1.3	.0	.0	.0	116	.1	8.9
-4	.0	.1	.2	1.1	2.8	.6	.1	.0	.0	80	.1	4.8
-5	.0	.2	.2	1.2	1.3	.6	.0	.0	.0	60	.0	3.6
-6	.0	.0	.1	.7	.8	.2	.0	.0	.0	31	.0	1.9
-7/-8	.0	.2	.2	.9	.8	.1	.0	.0	.0	37	.0	2.2
-9/-10	.0	.0	.4	.2	.1	.0	.0	.0	.0	10	.0	.6
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
-14/-16	.0	.1	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	1	15	46	208	628	378	147	22	11	1656	1.3	98.7
PCT	.1	.9	2.8	12.6	37.9	34.9	8.9	1.3	.7	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1960-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.1	.2	.0	.0	.0	.0	41	.4	.2	.0	.0	.0	.0	.3
1-2	.0	.1	.2	.0	.0	.0	1.7	1-2	.3	3.3	2.7	.0	.0	.0	8.3
3-4	.0	.9	2.8	.5	.0	.0	3.5	3-4	.0	1.9	3.3	.6	.0	.0	8.1
5-6	.0	.4	2.1	1.1	.0	.0	3.5	5-6	.0	.4	3.8	1.1	.0	.0	7.4
7	.0	.0	.1	.3	.0	.0	.4	7	.0	.0	1.2	1.8	.0	.0	2.2
8-9	.0	.0	.3	.0	.0	.0	.3	8-9	.0	.0	.8	.4	.0	.0	1.0
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.8	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.2	.9	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-48	.0	.0	.0	.0	.0	.0	.0	33-48	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.7	9.4	1.8	.0	.0	10.5	TOT PCT	.6	5.8	16.0	3.4	.0	.0	26.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	41	.4	.9	.0	.0	.0	.0	1.2
1-2	.2	2.0	1.1	.0	.0	.0	4.3	1-2	.3	2.4	.3	.0	.0	.0	3.0
3-4	.0	1.1	2.6	.0	.0	.0	4.6	3-4	.0	2.3	3.0	.2	.0	.0	5.5
5-6	.0	.0	2.2	.2	.0	.0	2.0	5-6	.0	.2	1.6	.8	.0	.0	2.3
7	.0	.0	1.0	.2	.0	.0	1.2	7	.0	.0	2.1	.4	.0	.0	2.4
8-9	.0	.0	.3	.0	.0	.0	.3	8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.2	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-48	.0	.0	.0	.0	.0	.0	.0	33-48	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.1	9.9	.4	.0	.0	15.7	TOT PCT	.7	6.0	7.3	1.7	.0	.0	15.8

PERIOD: (OVER-ALL) 1949-1975

NOVEMBER

AREA 0011 PORTO ALEGRE
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	6.6	2.5	.5	.0	14.2	.2	2.8	5.3	1.9	.6	.0	10.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	1.9	.8	.2	.0	3.6	.2	1.1	.6	.0	.0	.0	1.9	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	2.2	.2	.0	.0	.0	5.8	
1-2	1.3	13.9	6.1	.0	.0	.0	23.1	
3-4	.2	8.7	20.6	2.3	.0	.0	31.4	
5-6	.2	2.2	13.5	4.1	.0	.0	21.9	
7	.0	.0	7.3	2.8	.3	.0	10.6	
8-9	.0	.0	1.9	1.4	.0	.0	3.3	
10-11	.0	.0	.3	1.1	.0	.0	1.6	
12	.0	.0	.3	.9	.0	.0	.8	
13-16	.0	.0	.2	.0	.9	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.3	.0	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	28.4	52.7	12.7	1.3	.0	100.0	640

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	9.7	12.3	8.9	3.3	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	437	4
6-7	.0	1.4	10.6	10.2	2.1	3.1	.9	.5	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	376	5
8-9	.0	.0	1.7	4.8	3.8	1.3	1.1	.3	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	7
10-11	.0	.0	.7	.3	.7	.8	.4	.1	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	65	9
12-13	.0	.0	.4	.3	.1	.0	.1	.4	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	20	9
15-19	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	12
INERT	1.9	1.1	2.4	2.8	1.1	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	4
TOTAL	42	142	329	320	168	76	39	20	7	3	3	0	0	0	0	0	0	0	0	1168	5
PCT	3.6	12.2	28.2	27.4	14.4	6.3	3.3	1.6	1.7	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1861-1973

AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	ORZL	FRZG	SNOW	OTHER FRZM	MAIL	PCPN AT	PCPN PAST	THDR	FGG	FGG WD	SMOKE	SPRAY
				PCPN		PCPN		OB TIME	HR	LTNG	PCPN	PCPN PAST HR	HAZE	BLNG DUST
													BLNG SNOW	SEA
N	3.9	.9	1.2	.0	.0	.0	.0	3.9	1.4	3.0	.4	.0	1.6	.0
NE	2.4	.6	.6	.0	.0	.0	.0	3.6	.5	2.4	.4	.0	2.1	.0
E	1.8	1.4	.3	.0	.0	.0	.0	3.6	1.3	.4	3.2	.0	.6	.0
SE	2.3	.0	.8	.0	.0	.0	.0	3.1	1.3	.0	3.6	.0	.0	.0
S	1.0	1.3	1.0	.0	.0	.0	.0	3.6	.0	.7	.6	.0	.6	.0
SW	2.6	.9	.6	.0	.0	.0	.0	4.1	1.8	2.9	.0	.2	.6	.0
W	3.6	1.4	.0	.0	.0	.0	.0	3.0	.0	3.6	.0	1.4	.6	.0
NW	12.4	1.6	3.8	.0	.0	.0	.0	17.6	.3	3.3	.0	.0	1.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	7.7	.0	.0
TOT PCT	2.8	.9	.8	.0	.0	.0	.0	4.3	.9	2.1	1.1	.1	1.2	.0
TOT OBS:	1479													90.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	ORZL	FRZG	SNOW	OTHER FRZM	MAIL	PCPN AT	PCPN PAST	THDR	FGG	FGG WD	SMOKE	SPRAY
				PCPN		PCPN		OB TIME	HR	LTNG	PCPN	PCPN PAST HR	HAZE	BLNG DUST
													BLNG SNOW	SEA
0000	3.3	1.6	.3	.0	.0	.0	.0	3.4	.3	3.8	1.1	.0	.3	.0
0600	2.7	1.1	.8	.0	.0	.0	.0	4.6	.3	4.0	1.1	.0	1.1	.0
1200	1.7	.9	1.2	.0	.0	.0	.0	3.8	.7	.2	1.7	.3	1.9	.0
1800	3.6	.0	.6	.0	.0	.0	.0	4.2	2.1	.3	.6	.0	1.3	.0
TOT PCT	2.7	.9	.8	.0	.0	.0	.0	4.3	.9	2.1	1.1	.1	1.2	.0
TOT OBS:	1498													90.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
								OBS	FRZG	SPD							
N	.5	4.7	3.4	1.6	.2	.0		12.7	13.8		8.9	13.1	13.0	12.3	14.4	14.6	10.7
NE	1.0	9.3	16.9	4.6	.4	.0		32.2	14.4		32.7	33.3	32.8	43.1	32.1	29.7	33.7
E	.7	7.9	6.1	.7	.0	.0		19.4	11.3		19.2	14.3	12.7	6.9	11.2	13.0	14.4
SE	.7	6.1	4.9	.3	.1	.0		11.9	11.0		12.4	12.7	12.1	10.0	11.2	10.8	11.4
S	.6	4.6	3.0	1.2	.1	.0		11.3	12.8		14.4	11.3	9.8	7.6	10.1	11.6	11.7
SW	.3	3.3	3.8	1.6	.3	.0		9.6	14.7		9.7	7.6	7.7	9.7	9.8	10.8	11.3
W	.2	1.3	1.0	.3	.1	.1		3.3	14.2		2.4	2.2	3.1	4.2	4.3	3.7	3.1
NW	.4	1.8	1.1	.2	.0	.0		3.6	10.6		2.0	3.0	4.4	.0	4.8	4.6	2.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		2.3	2.2	2.3	.0	1.3	1.1	1.4
TOT OBS	411	2387	2823	709	82	12	6424		13.0		1127	806	1137	36	1164	991	1108
TOT PCT	6.4	37.2	43.9	11.0	1.3	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL	PCT	MEAN	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
						OBS	FRZG	SPD					
N	2.1	6.1	3.6	.7	.0			12.7	13.3	10.7	14.9	14.5	10.7
NE	4.3	15.2	11.3	1.3	.0			32.2	14.4	32.9	33.1	31.0	32.2
E	2.8	8.0	2.3	.2	.0			13.4	11.3	14.8	12.3	12.0	14.3
SE	2.8	7.2	1.7	.2	.0			11.9	11.0	12.3	12.2	11.0	12.4
S	2.3	3.7	3.0	.4	.1			11.3	12.8	13.2	9.7	10.8	11.8
SW	1.7	4.0	2.9	.8	.1			9.1	14.7	8.9	7.7	10.3	11.3
W	.9	1.3	.7	.9	.1			4.4	14.2	2.3	3.2	4.3	3.1
NW	1.3	1.3	.7	.1	.0			3.6	10.6	2.4	4.3	4.7	2.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	2.3	2.4	1.3	1.2
TOT OBS	1287	3132	1702	233	28	6424		13.0		1933	1193	2133	1143
TOT PCT	20.0	49.1	26.3	4.0	.4			100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1912-1973
(OVER-ALL) 1961-1973

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.2	4.3	37.5	42.1	11.1	1.4	.3	12.9	100.0	1933
0600	2.4	4.6	38.6	42.3	10.6	1.3	.1	12.7	100.0	1193
1200	1.3	3.0	38.3	43.3	10.6	1.3	.1	12.8	100.0	2135
1800	1.3	4.2	32.9	48.2	12.2	1.0	.2	13.6	100.0	1143
TOT	1.17	2.94	2307	2822	709	82	12	13.0		6424
PCT	1.6	4.6	37.2	43.9	11.0	1.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-8	TOTAL OBS	MEAN CLOUD COVER
N	5.4	1.9	2.7	2.0		3.6
NE	12.8	6.8	8.3	4.1		3.7
E	4.3	3.7	1.3	2.4		4.2
SE	2.7	2.7	2.2	2.1		4.3
S	3.7	2.0	2.9	2.0		4.0
SW	4.7	2.9	2.4	1.6		3.6
W	1.2	.8	.8	1.2		4.4
NW	1.9	.7	.7	.7		3.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.1	.1		1.3
TOT OBS	487	249	286	186	1140	3.9
TOT PCT	37.4	21.7	24.9	16.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION

000	100	200	300	400	1000	2000	3000	5000	6000	8000+	NM <9/8	TOTAL
149	299	399	999	1999	3499	4999	6499	7999			ANY HGT	OBS
.1	.0	.1	.4	1.0	.3	.9	.1	.0	.1	.1	9.1	
.1	.0	.3	1.0	2.4	2.3	1.0	.4	.1	.0	.0	24.7	
.2	.0	.2	.5	1.4	.9	.8	.9	.1	.1	.1	10.1	
.0	.0	.0	.2	.8	.9	.9	.7	.1	.1	.1	6.4	
.2	.0	.0	.5	1.2	.8	.7	.0	.0	.1	.1	7.2	
.0	.0	.1	.3	1.4	.7	.9	.1	.0	.0	.0	8.8	
.0	.1	.0	.4	.7	.2	.1	.1	.0	.0	.0	2.5	
.0	.0	.1	.3	.5	.2	.1	.0	.0	.0	.0	2.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
.7	1	9	44	105	76	45	27	3	4	827	1140	
.6	.1	.8	3.8	9.1	6.6	3.9	2.4	.3	.3	72.0	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>30YD	>0
>OR >6000	.5	.6	.6	.6	.6	.6	.6	.6
>OR >5000	1.7	1.8	2.2	2.4	2.4	2.4	2.4	2.4
>OR >4000	4.4	5.3	6.1	6.3	6.3	6.3	6.3	6.3
>OR >3000	9.6	11.0	12.6	12.8	12.8	12.8	12.8	12.8
>OR >2000	18.2	20.8	21.8	21.9	21.9	21.9	21.9	21.9
>OR >1000	17.8	24.2	25.4	25.7	25.8	25.8	25.8	25.8
>OR >500	18.2	24.8	26.1	26.4	26.3	26.3	26.3	26.3
>OR >100	18.2	24.9	26.2	26.3	26.4	26.4	26.4	26.4
>OR >0	18.2	25.0	26.3	26.9	27.1	27.1	27.1	27.2
TOTAL	208	283	302	367	369	369	369	510

TOTAL NUMBER OF OBS: 1140

PCT FREQ NM <9/8 72.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL
19.5	19.8	14.9	13.2	7.9	3.3	6.9	6.2	9.8	.5	1218

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1861-1975

DECEMBER

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	
1-2	PCP	.1	.1	.1	.0	.1	.0	.1	.0	.0	.0	.4	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.2	.0	.1	.0	.1	.0	.0	.0	.5	
2-5	PCP	.1	.2	.1	.0	.0	.1	.0	.1	.0	.0	.6	
	NO PCP	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	1.1	
	TOT %	.2	.4	.3	.2	.1	.2	.1	.1	.0	.0	1.7	
5-10	PCP	.2	.4	.2	.2	.3	.4	.0	.3	.0	.1	2.3	
	NO PCP	1.8	4.4	2.3	2.3	2.2	1.7	1.0	.4	.0	.1	16.3	
	TOT %	2.1	4.8	2.5	2.5	2.5	2.1	1.0	.7	.0	.1	20.6	
10+	PCP	.2	.2	.1	.1	.1	.0	.1	.1	.0	.0	1.0	
	NO PCP	9.1	23.0	11.2	7.1	8.7	9.0	2.3	2.3	.0	.7	78.9	
	TOT %	9.3	23.2	11.3	7.2	8.7	9.0	2.3	2.7	.0	.7	79.9	
TOT OBS													1473
TOT PCT		11.7	32.0	14.4	10.3	11.3	11.2	3.7	3.4	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1-2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.3	.2	.1	.1	.1	.0	.0	.0	.0	1.1	
2-5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.6	
	11-21	.1	.4	.2	.1	.1	.2	.0	.1	.0	.0	1.3	
	22+	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.4	.8	.5	.4	.2	.3	.1	.1	.0	.0	2.8	
5-10	0-3	.1	.1	.1	.2	.1	.0	.0	.0	.0	.1	.7	
	4-10	.6	1.6	1.7	1.4	.7	.4	.2	.0	.0	.0	6.3	
	11-21	1.2	3.8	1.3	.7	.8	.3	.1	.3	.0	.0	8.8	
	22+	.6	1.4	.1	.1	.4	.4	.2	.1	.0	.0	3.4	
	TOT %	2.5	6.9	2.2	2.4	2.1	1.7	.7	.6	.0	.1	19.2	
10+	0-3	.3	.3	.3	.4	.4	.4	.1	.1	.0	1.1	6.3	
	4-10	3.3	7.7	3.2	3.1	3.6	2.3	1.3	1.8	.0	.0	30.5	
	11-21	3.9	12.3	3.2	3.7	4.4	3.7	.7	.8	.0	.0	34.8	
	22+	.8	2.8	.2	.2	.3	1.8	.9	.1	.0	.0	6.6	
	TOT %	8.3	24.0	11.1	9.4	8.7	8.4	2.3	2.8	.0	1.1	76.3	
TOT OBS													3245
TOT PCT		11.8	32.1	14.0	12.3	11.2	10.4	3.2	3.5	.0	1.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1961-1975

AREA 0011 PORTO ALFRE
30.6S 49.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 399	300 599	400 1000	500 1999	600 3499	700 4999	800 6499	900 7999	1000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.7	.0	.7	3.5	7.4	7.1	3.9	1.1	.4	.0	.0	24.7	75.3	283
06009	.3	.0	1.0	3.4	8.2	6.3	2.4	2.4	.7	1.0	.0	23.9	76.1	293
12015	1.2	.3	.3	4.6	11.7	8.3	3.1	2.8	.0	.0	.0	32.2	67.8	326
18021	.0	.0	1.0	3.1	7.6	3.5	3.9	3.1	.0	.3	.0	24.6	75.4	289
TOT	7	1	9	44	105	76	45	28	3	4	.0	322	869	1191
PCT	.6	.1	.6	3.7	8.8	6.4	3.8	2.4	.3	.3	.0	27.0	73.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.1	.1	1.2	3.8	21.9	72.9	942
06009	.6	.3	.7	2.3	19.3	76.7	690
12015	.4	.3	1.3	2.8	18.2	77.0	990
18021	.2	.2	1.2	1.7	17.0	79.8	642
TOT	10	7	37	92	628	2490	3264
PCT	.3	.2	1.1	2.8	19.2	76.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.7	1.3	3.9	19.7	74.3	289
06009	.4	1.4	6.0	19.9	74.0	281
12015	1.3	1.9	9.1	23.0	67.9	318
18021	.0	1.1	3.1	20.2	74.6	272
TOT	7	17	76	237	827	1140
PCT	.6	1.5	6.7	20.8	72.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
88/84	.0	.0	.1	.1	.3	.8	.1	.3	21	1.9
75/79	.0	.0	.3	1.3	3.6	3.3	2.7	1.8	168	13.1
70/74	.0	.1	.1	2.0	7.8	13.7	18.3	13.1	638	37.3
69/69	.0	.0	.1	1.8	5.8	5.8	4.8	4.4	233	22.7
60/64	.0	.0	.0	.1	.8	.6	.3	.6	30	2.7
55/59	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
TOTAL	0	1	3	48	182	397	323	277	1113	100.0
PCT	.0	.1	.3	4.3	16.4	26.7	29.2	23.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
88/84	.2	.7	.2	.4	.2	.0	.0	.1	.0	.0
75/79	3.2	6.3	1.3	3.7	1.3	.4	.3	.0	.0	.2
70/74	8.0	21.4	6.9	3.3	3.3	3.0	2.8	2.3	.0	.3
69/69	.9	3.7	4.4	3.2	3.9	4.7	1.2	.7	.0	.0
60/64	.1	.2	.0	.3	.8	1.1	.0	.0	.0	.2
55/59	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	12.3	32.3	12.9	9.9	11.9	11.9	4.3	3.7	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	77	75	71	64	61	58	70.6	1903
06009	79	74	74	70	64	60	57	69.8	1187
12015	87	82	78	73	66	63	56	72.4	2034
18021	86	83	80	73	66	63	59	73.2	1072
TOT	87	81	77	72	63	61	56	71.3	6222

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.4	14.7	26.0	28.1	26.7		80		288
06009	.0	4.0	15.0	20.8	29.6	30.7		81		274
12015	.0	5.7	19.3	23.6	32.0	21.2		79		316
18021	.0	7.2	18.9	34.3	26.3	12.9		76		249
TOT	0	94	183	299	329	240		79		1127

DECEMBER

PERIOD: (PRIMARY) 1912-1975
(OVER-ALL) 1861-1975

TABLE 17

AREA 0011 PORTO ALEGRE
30.85 49.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
11/15	.0	.0	.0	.0	.0	.4	.2	.3	11	.0	.4
9/10	.0	.0	.0	.0	.2	.8	.4	.0	18	.0	1.4
7/8	.0	.0	.0	.1	.4	.8	.2	.0	19	.0	1.4
6	.0	.0	.2	.0	.3	1.0	.1	.0	20	.0	1.3
5	.0	.0	.1	.2	1.1	1.0	.1	.0	33	.1	2.4
4	.0	.0	.2	.8	2.3	1.1	.0	.0	37	.0	4.3
3	.0	.1	.2	1.7	2.3	1.1	.0	.0	59	.0	3.2
2	.0	.0	.3	4.0	4.2	1.2	.0	.0	132	.0	9.9
1	.0	.2	.3	4.7	3.9	.9	.0	.0	132	.2	11.2
0	.0	.3	2.1	9.2	6.3	.8	.1	.0	231	.0	18.8
-1	.0	.4	1.4	7.1	2.0	.0	.0	.0	148	.2	10.8
-2	.0	.3	2.8	6.2	1.8	.2	.0	.0	148	.1	11.0
-3	.0	.1	1.7	4.1	.9	.1	.0	.0	90	.3	6.3
-4	.0	.3	2.9	2.2	.4	.0	.0	.0	74	.2	3.6
-5	.1	.4	2.0	.3	.9	.0	.0	.0	43	.0	3.2
-6	.0	.3	1.3	.8	.1	.0	.0	.0	35	.1	2.5
-7/-8	.0	.4	.8	.4	.2	.0	.0	.0	22	.0	1.7
-9/-10	.1	.3	.0	.0	.0	.0	.0	.0	3	.0	.4
-11/-13	.2	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.2	.0	.0	.0	1	.0	.1
TOTAL	6	46	213	399	379	114	12	4	1333	14	1315
PCT	.9	3.5	16.0	41.9	28.4	8.6	.9	.3	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1861-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.1	.0	.0	.0	.0	3.3	.0	4.5	2.2	.0	.0	.0	7.1
3-4	.0	1.3	1.0	.2	.0	.0	3.6	.0	1.9	0.6	.7	.0	.0	12.1
5-6	.0	.2	3.1	.2	.0	.0	2.6	.0	.3	2.3	1.2	.0	.0	7.9
7	.0	.0	.6	1.0	.0	.0	1.6	.0	.0	2.0	2.4	.0	.0	4.4
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	1.0	.2	.0	.0	1.2
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.9	.7	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.5	3.1	1.7	.2	.0	13.3	.7	7.3	21.1	3.3	.7	.0	33.2

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	2.0	.0	.0	.0	4.9	.0	2.4	.3	.0	.0	.0	3.0
3-4	.0	1.2	2.2	.0	.0	.0	3.4	.0	1.3	2.6	.0	.0	.0	3.8
5-6	.0	.9	3.0	.7	.0	.0	3.9	.0	.3	.7	.2	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	4.6	.7	.0	.0	12.5	.0	4.0	4.3	.3	.0	.0	8.9

PERIOD: (OVER-ALL) 1953-1975

DECEMBER
TABLE 18 (CONT)AREA 0011 PORTO ALEGRE
30.85 49.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.0	1.8	.3	.0	.0	.0	2.3	.0
3-4	.0	.8	2.7	.0	.0	.0	3.5	.0	.3	1.1	.0	.0	.0	1.6	.0
5-6	.0	.4	2.8	1.0	.0	.0	4.3	.0	.1	1.5	1.3	.0	.0	2.8	.0
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.3	.3	.0	.0	1.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.1	.0	.0	.3	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.1	.0	.3	.0
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.3	.0	.0	.3	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	7.4	1.7	.0	.0	11.8	.0	3.1	4.0	3.1	.3	.0	10.4	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.2	.0	.0	.0	1.6	.0	.3	.0	.0	.0	.0	.3	.0
3-4	.0	.2	.2	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.3	.0
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.2	.3	.2	.0	.0	.8	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0
8-9	.0	.0	.2	.2	.0	.0	.3	.0	.0	.2	.2	.0	.0	.3	.0
10-11	.0	.0	.2	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.2	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.6	1.8	.6	.4	.0	4.6	.2	1.2	.6	.7	.0	.0	2.8	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	1.4	2.5	.0	.0	.0	.0	3.9	
1-2	1.4	17.7	2.2	.0	.0	.0	21.0	
3-4	.2	7.6	20.3	.9	.0	.0	29.0	
5-6	.0	2.5	16.8	4.8	.0	.0	24.2	
7	.0	.0	4.4	4.6	.0	.0	9.0	
8-9	.0	.0	1.6	.9	.2	.0	2.8	
10-11	.0	.0	.2	2.3	.9	.0	3.3	
12	.0	.0	.2	.3	.0	.0	.7	
13-16	.0	.0	.2	.2	.0	.0	.7	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	30.4	30.7	14.3	1.6	.0	100.0	434

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.7	9.4	10.7	8.1	2.3	.5	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
4-7	.0	1.3	9.4	13.7	6.7	2.0	1.9	.0	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	363	6
8-9	.0	.0	2.9	3.2	3.9	1.6	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	6
10-11	.0	.4	.3	.3	.3	.8	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	1.1	1.4	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	6
>13	.0	.0	.0	.2	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
INDET	1.1	1.4	2.7	1.1	.7	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
TOTAL	26	118	256	284	133	35	43	14	10	4	0	0	0	0	0	0	0	0	0	947	5
PCT	2.7	12.5	27.0	30.0	14.3	3.8	4.8	1.5	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0011 PORTO ALEGRE
30.83 49.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	1.1	1.0	.0	.0	.0	.1	3.3	2.1	4.0	2.7	.1	2.0	.0	84.3
NE	2.9	1.3	.9	.0	.0	.0	.0	3.4	1.6	2.1	2.4	.1	2.0	.0	86.7
E	3.9	2.3	1.9	.0	.0	.0	.1	8.0	2.7	.0	1.7	.1	.7	.1	88.0
SE	4.7	2.6	1.7	.0	.0	.0	.0	9.0	2.3	.9	1.4	.0	.2	.0	88.4
S	3.7	1.9	1.4	.0	.0	.0	.1	7.1	2.0	1.2	1.4	.1	.4	.0	88.1
SW	3.0	2.1	1.4	.0	.0	.0	.0	6.3	2.4	1.3	1.2	.1	.4	.0	88.2
W	2.7	2.1	1.0	.0	.0	.0	.0	3.8	1.3	1.7	1.3	.3	.8	.0	88.7
NW	3.1	1.7	2.0	.0	.0	.0	.0	8.7	2.4	2.7	2.7	.1	.8	.0	89.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALN	1.3	1.0	1.1	.0	.0	.0	.0	3.4	1.0	2.7	8.0	1.1	3.8	.0	80.1
TOT PCT	3.3	1.8	1.3	.0	.0	.0	.0	6.3	2.0	1.8	2.0	.1	1.1	.0	86.9
TOT OBS: 21396															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DS TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.6	2.1	1.1	.0	.0	.0	.1	6.7	1.5	3.7	1.9	.1	.9	.0	85.6
0600	3.7	1.7	1.4	.0	.0	.0	.0	6.7	2.3	3.2	1.8	.1	.8	.0	85.3
1200	2.7	1.8	1.4	.0	.0	.0	.1	3.9	1.9	.3	2.3	.2	1.4	.0	88.0
1800	3.2	1.6	1.2	.0	.0	.0	.0	6.0	2.2	.3	1.9	.1	1.4	.0	88.3
TOT PCT	3.3	1.8	1.3	.0	.0	.0	.0	6.3	2.0	1.9	2.1	.1	1.1	.0	86.8
TOT OBS: 22117															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12
N	.6	4.5	5.4	1.7	.2	.0		12.4	13.7		10.3	11.9	13.6	13.3	11.2
NE	.9	6.2	12.6	3.1	.2	.0		23.1	13.8		23.2	24.2	28.0	24.8	23.0
E	.7	3.5	3.0	.9	.1	.0		12.2	11.5		14.0	11.8	13.7	11.0	11.0
SE	.0	3.4	4.7	.9	.2	.0		11.9	11.8		12.3	12.4	11.0	9.7	10.7
S	.8	4.6	4.4	1.1	.2	.0		11.1	12.4		12.8	12.6	10.3	10.3	11.0
SW	.7	4.1	5.6	2.8	.6	.1		13.9	13.4		13.6	12.4	12.9	13.1	14.0
W	.4	2.0	2.1	1.3	.6	.1		6.5	10.0		3.3	3.7	6.2	6.9	7.3
NW	.4	2.4	1.7	.3	.1	.0		3.2	11.8		4.0	4.8	3.5	3.8	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0
CALN	2.1							2.1	.0		2.2	2.7	2.6	1.2	2.0
TOT OBS							84652		13.3		15147	10403	13214	13138	12612
TOT PCT	7.3	34.8	41.1	12.4	2.2	.3		100.0			100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12
N	2.3	5.9	3.6	.6	.1			12.4	13.7		11.0	13.6	13.8	11.1	
NE	3.7	12.6	7.9	.9	.1			23.1	13.8		23.6	24.1	24.1	23.2	
E	2.7	6.7	2.4	.4	.0			12.2	11.5		13.6	11.9	11.0	12.5	
SE	2.9	6.1	2.0	.1	.1			11.5	11.8		12.3	11.0	10.8	11.5	
S	2.6	5.5	2.4	.4	.1			11.1	12.4		11.9	10.3	10.4	11.6	
SW	2.2	5.6	4.4	1.4	.3			13.9	13.4		13.1	12.9	14.2	13.4	
W	1.2	2.3	1.7	.9	.3			6.5	10.0		3.4	3.3	7.3	6.6	
NW	1.3	2.4	1.0	.3	.1			3.2	11.8		4.4	3.4	6.1	6.4	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALN	2.1							2.1	.0		2.4	2.3	2.0	1.4	
TOT OBS						84652			13.3		23730	15734	27770	15398	
TOT PCT	21.2	47.1	25.4	3.3	.9			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1934-1976

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AREA 0011 PORTO ALEGRE
30.63 49.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	2.4	3.0	37.3	40.3	12.2	2.2	.3	13.2	100.0	25750
0600	2.5	3.3	37.2	41.0	11.6	1.9	.2	13.0	100.0	15734
1215	2.0	3.4	36.2	40.7	12.9	2.4	.3	13.4	100.0	27770
1821	1.4	4.8	35.9	42.1	12.6	2.0	.3	13.4	100.0	15598
TOT								13.3		84682
PCT	2.1	3.2	36.6	41.1	12.4	2.2	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.1	2.0	2.9	2.5		3.9
NE	10.7	4.5	7.3	4.6		5.9
E	4.0	2.8	3.3	3.0		4.5
SE	3.7	2.2	3.2	2.3		4.8
S	4.1	2.2	3.4	2.3		4.2
SW	4.8	2.9	4.2	2.6		4.1
W	2.2	.8	1.7	1.0		4.0
NW	1.6	.6	.9	.8		3.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.1	.2	.3	15815	4.1
TOT OBS					100.0	
TOT PCT	39.9	17.6	27.2	19.4		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <9/8 ANY HGT	TOTAL OBS
N	.2	.0	.2	.7	1.1	.7	.4	.1	.1	.1	9.0	
NE	.3	1	.3	1.4	2.2	1.7	1.2	.3	.1	.1	19.3	
E	.1	.0	.2	.8	1.7	.9	.5	.2	.1	.0	7.9	
SE	.1	.0	.2	.8	1.2	.9	.5	.2	.1	.1	6.3	
S	.1	.0	.2	.9	1.4	.9	.5	.1	.0	.1	7.8	
SW	.1	.0	.2	1.0	1.8	.9	.7	.3	.0	.1	9.3	
W	.0	.0	.1	.4	.8	.4	.3	.1	.0	.0	3.6	
NW	.0	.0	.1	.2	.6	.2	.2	.1	.0	.0	2.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	1.0	
TOT OBS	1.1	.2	1.4	6.3	10.6	6.5	4.4	1.6	.3	.3	66.8	15815
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	CEILING (FEET)	>10	>9	>8	VSBY (NM) >1	>1/2	>1/4	>30YD	>0
>4500	.6	.9	.9	.9	.9	.9	.9	.9	.9
>5000	1.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>5500	4.7	6.9	6.9	7.0	7.0	7.0	7.0	7.0	7.0
>6000	9.2	12.4	13.2	13.3	13.4	13.4	13.4	13.4	13.4
>6500	16.5	22.2	23.7	23.8	23.9	23.7	24.0	24.0	24.0
>7000	20.1	27.9	29.9	30.1	30.2	30.2	30.3	30.3	30.3
>7500	20.7	29.0	31.3	31.3	31.6	31.7	31.7	31.7	31.7
>8000	20.8	29.2	31.3	31.6	31.8	31.9	31.9	31.9	31.9
>8500	20.9	29.6	32.1	32.4	32.6	32.8	33.0	33.1	33.1

TOTAL NUMBER OF OBS: 16015

PCT FREQ NM <9/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	19.3	14.3	13.2	10.6	8.0	6.2	6.8	7.1	12.9	.8	17171

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1954-1976

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30.65 49.04

TABLE 8

PERCENT FREE OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.2	.0	.0	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.4	
2/5	PCP	.1	.3	.2	.2	.1	.1	.0	.1	.0	.0	1.1	
	NO PCP	.3	.7	.3	.2	.2	.2	.1	.1	.0	.1	2.2	
	TOT %	.4	.9	.5	.4	.3	.3	.1	.2	.0	.1	3.3	
5<10	PCP	.4	.7	.5	.4	.5	.3	.2	.2	.0	.0	3.4	
	NO PCP	3.1	6.0	2.6	2.1	2.2	2.8	1.4	1.0	.0	.2	21.5	
	TOT %	3.5	6.7	3.0	2.6	2.7	3.3	1.6	1.2	.0	.3	24.9	
10+	PCP	.1	.3	.2	.2	.2	.2	.1	.0	.0	.0	1.3	
	NO PCP	8.3	18.4	8.7	7.2	8.3	10.2	4.0	2.6	.0	.8	68.9	
	TOT %	8.4	18.7	8.9	7.4	8.5	10.5	4.1	2.7	.0	.8	70.2	
TOT OBS													21963
TOT PCT		12.3	26.9	12.6	10.5	11.8	14.4	8.9	4.1	.0	1.3	100.0	

TABLE 9

PERCENT FREE OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.1	.1	.1	.0	.0	.0	.1	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	1.0	
2/5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.2	.2	.2	.2	.1	.1	.1	.1	.0	.0	1.2	
	11-21	.2	.3	.2	.2	.2	.1	.1	.1	.0	.0	1.6	
	22+	.1	.2	.1	.1	.1	.2	.1	.0	.0	.0	.9	
	TOT %	.5	1.0	.6	.4	.4	.5	.2	.2	.0	.1	3.0	
5<10	0-3	.1	.2	.1	.1	.1	.1	.1	.1	.0	.3	1.1	
	4-10	.6	1.3	.9	1.0	.8	.8	.4	.3	.0	.8	6.7	
	11-21	1.4	2.9	1.1	.9	.9	1.1	.4	.4	.0	.0	9.1	
	22+	.3	1.1	.3	.3	.2	.3	.0	.1	.0	.0	3.9	
	TOT %	3.0	5.7	2.4	2.3	2.2	2.7	1.3	1.1	.0	.3	20.8	
10+	0-3	.4	.6	.5	.5	.3	.3	.3	.3	.0	1.3	4.7	
	4-10	3.4	6.6	4.3	4.2	3.6	3.3	1.6	1.9	.0	.0	29.1	
	11-21	4.0	9.7	3.8	2.9	3.7	4.9	1.7	1.0	.0	.0	31.7	
	22+	.8	1.7	.3	.4	.7	2.4	1.2	.2	.0	.0	7.8	
	TOT %	8.7	18.6	9.1	8.0	8.4	11.1	4.7	3.3	.0	1.3	73.3	
TOT OBS													44863
TOT PCT		12.3	29.8	12.4	11.0	11.2	14.3	6.3	4.7	.0	1.7	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	TOTAL ANY HGT	NH <5/8 OBS	TOTAL OBS
0000	1.2	.1	1.2	3.9	9.7	5.4	4.1	1.2	.4	.5	29.7	70.5	4101		
0600	1.4	.2	1.5	3.7	9.9	5.4	3.6	1.2	.4	.5	29.8	70.2	4071		
1200	1.1	.4	1.6	6.6	10.9	7.5	4.6	1.7	.7	.4	35.4	64.6	4348		
1800	.7	.2	1.2	3.9	10.2	6.6	4.8	2.3	.4	.4	32.8	67.2	4209		
TOT PCT	1.1	.2	1.4	6.1	10.2	6.3	4.3	1.6	.5	.4	32.0	68.0	16729 100.0		

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2 1/2-1	1-2	2-5	5-10	10+ TOTAL OBS
0000	.7	.3	1.0	3.6	22.5 71.9 13224
0600	.8	.3	.8	4.2	21.1 72.8 9420
1200	.4	.4	1.1	3.8	20.5 73.4 13369
1800	.7	.2	1.2	4.0	19.1 74.7 9182
TOT PCT	.8	.3	1.0	3.9	20.9 73.1 45398 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<1 41	<1000 45	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	1.3	2.7	10.9	20.8	68.2	3896
0600	1.4	3.5	12.9	20.0	68.0	3881
1200	1.1	3.5	12.8	24.6	62.6	4167
1800	.8	2.8	11.7	29.0	65.3	4071
TOT PCT	1.1	3.1	11.9	22.7	66.0	16015 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
80/84	.0	.0	.0	.1	.3	.9	.6	.2	2.1	2.1
75/79	.0	.0	.1	.4	1.4	4.1	5.4	2.8	14.2	14.2
70/74	.0	.0	.1	1.2	4.3	6.9	8.5	6.2	27.2	27.2
65/69	.0	.0	.1	1.3	3.8	5.6	8.2	7.2	26.9	26.9
60/64	.0	.0	.1	.9	3.6	4.2	5.7	4.7	19.2	19.2
55/59	.0	.0	.1	.5	1.3	2.6	2.6	1.7	8.9	8.9
50/54	.0	.0	.0	.1	.5	.9	.8	.2	2.1	2.1
45/49	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
40/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL PCT	.0	.0	.5	4.6	18.3	26.7	31.9	22.9	16405	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.4	.0	.2	.2	.1	.2	.1	.1	.0	.0
2.4	3.3	2.0	1.2	1.2	1.0	.4	.3	.0	.2
3.3	8.2	4.0	3.3	3.0	2.3	1.0	1.3	.0	.3
3.9	7.5	3.1	2.9	3.0	2.3	1.4	1.1	.0	.2
1.8	3.8	2.4	2.2	3.0	3.6	1.3	.7	.0	.3
.4	.0	.0	.0	1.3	3.0	1.3	.4	.0	.1
.0	.0	.0	.0	.4	.9	.5	.1	.0	.0
.0	.0	.0	.0	.1	.1	.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.4	26.6	12.5	10.5	12.1	14.3	6.0	4.1	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	MIN	MEAN	TOTAL OBS
0000	88	79	79	67	60	56	66.9	22617
0600	83	74	72	67	59	56	66.3	19731
1200	92	78	75	69	61	57	68.3	27064
1800	92	80	76	69	62	58	69.1	14887
TOT	92	77	75	68	60	56	67.6	83298

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.0	14.3	23.7	32.5	23.5		81		4317
0600	.0	3.7	12.9	21.4	33.4	28.6		81		4039
1200	.0	5.3	19.7	24.6	31.7	22.5		79		4440
1800	.0	7.6	18.2	29.0	29.9	15.3		77		3798
TOT	1	868	2357	4133	5362	3967		80		16790

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

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30.85 49.0W

TABLE 17

PCT FREE OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45	49	53	57	61	65	69	73	77	81	85	89	TOT	FOG	WD
	45	52	56	60	64	68	72	76	80	84	88	92			
29/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	*
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	.1
11/13	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	86	.0	.5
9/10	.0	.0	.0	.0	.1	.1	.1	.1	.2	.1	.0	.0	134	.0	.7
7/8	.0	.0	.0	.0	.2	.2	.2	.2	.3	.2	.1	.0	283	.1	1.4
6	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.0	.0	242	.0	1.2
5	.0	.0	.0	.0	.2	.4	.5	.5	.4	.1	.0	.0	485	.1	2.5
4	.0	.0	.1	.2	.8	1.0	.8	.7	.6	.2	.0	.0	822	.1	4.2
3	.0	.0	.1	.4	.8	1.0	.8	.7	.6	.2	.0	.0	948	.1	4.8
2	.0	.0	.2	.7	1.3	2.0	1.9	1.9	1.1	.1	.0	.0	1799	.2	9.1
1	.0	.0	.2	.7	1.3	2.0	2.4	2.3	1.3	.1	.0	.0	1987	.2	10.0
0	.0	.1	.3	.7	1.9	2.8	3.3	3.5	1.4	.1	.0	.0	2750	.2	13.9
-1	.0	.0	.2	.7	1.4	2.5	2.6	2.8	.7	.0	.0	.0	2136	.2	10.7
-2	.0	.1	.4	.9	1.7	2.4	2.6	2.4	.3	.0	.0	.0	2104	.2	10.6
-3	.0	.0	.3	.6	1.3	1.7	1.9	1.5	.1	.0	.0	.0	1437	.1	7.3
-4	.0	.1	.3	.7	1.4	1.6	1.5	.8	.1	.0	.0	.0	1283	.1	6.4
-5	.0	.1	.3	.5	1.1	1.2	.9	.4	.0	.0	.0	.0	880	.1	4.5
-6	.0	.0	.2	.5	.8	.7	.6	.2	.0	.0	.0	.0	606	.0	3.1
-7/-8	.0	.1	.4	.9	1.1	.8	.3	.1	.0	.0	.0	.0	740	.0	3.4
-9/-10	.0	.1	.3	.7	.5	.3	.1	.0	.0	.0	.0	.0	383	.0	2.0
-11/-13	.0	.1	.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	209	.0	1.1
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	46	.0	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.0
TOTAL													19424		
PCT	.1	.0	3.6	9.0	16.7	21.2	21.2	18.3	7.4	1.2	.2	*	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1943-1976

TABLE 18

PCT FREE OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.1	1.9	1.0	.0	.0	.0	3.0	.3	4.0	2.1	.0	.0	.0	6.3
3-4	.0	1.0	2.7	.2	.0	.0	3.9	.0	2.3	3.7	.4	.0	.0	6.6
5-6	.0	.3	1.9	.4	.0	.0	2.6	.0	.3	4.6	.8	.0	.0	5.9
7	.0	.0	.7	.3	.0	.0	1.3	.0	.1	2.1	1.0	.0	.0	3.2
8-9	.0	.0	.3	.4	.0	.0	.4	.0	.0	.6	.3	.0	.0	1.2
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.3	.1	.0	.6
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	6.6	1.8	.0	.0	12.7	.7	7.6	13.7	3.3	.1	.0	27.3

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.9	1.1	.0	.0	.0	4.1	.3	2.2	.3	.0	.0	.0	3.0
3-4	.0	1.4	2.8	.1	.0	.0	4.3	.0	1.5	1.8	.0	.0	.0	3.4
5-6	.0	.3	1.3	.2	.0	.0	2.1	.0	.3	1.2	.1	.0	.0	1.7
7	.0	.0	.3	.2	.0	.0	.8	.0	.1	.7	.1	.0	.0	.9
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	6.1	.7	.1	.0	12.3	.3	4.6	4.4	.3	.0	.0	10.1

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0011 PORTO ALEGRE
30.6S 49.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.8	.0	.0	.0	.7	.2	.4	.8	.0	.0	.0	.6
1-2	.1	.2	.8	.0	.0	.0	3.1	.1	1.8	.5	.0	.0	.0	2.3
3-4	.1	1.4	2.0	.2	.0	.0	3.6	.8	1.0	2.6	.2	.0	.0	3.9
5-6	.8	.4	1.9	.4	.8	.0	2.8	.0	.3	2.3	.8	.8	.0	3.4
7	.0	.1	.8	.3	.8	.0	1.2	.0	.1	.9	.8	.8	.0	1.8
8-9	.0	.8	.2	.1	.0	.0	.4	.0	.8	.5	.8	.8	.0	.9
10-11	.0	.8	.1	.2	.0	.0	.3	.0	.8	.2	.4	.1	.0	.7
12	.0	.0	.8	.1	.0	.0	.1	.0	.0	.8	.2	.1	.0	.3
13-16	.0	.0	.0	.1	.8	.0	.1	.0	.8	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	.0	.8
23-25	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.8	.8	.0	.8
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8
TOT PCT	.4	4.5	5.8	1.4	.1	.0	12.2	.2	3.5	6.9	3.0	.4	.8	14.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.2	.0	.0	.0	.0	.3	.1	.3	.8	.0	.0	.0	.4	
1-2	.1	.9	.0	.0	.0	.0	1.3	.1	.7	.3	.0	.0	.0	1.1	
3-4	.8	.3	.2	.0	.0	.0	1.3	.1	.3	.5	.8	.0	.0	.9	
5-6	.8	.8	.4	.8	.0	.0	1.1	.8	.1	.4	.1	.0	.0	.6	
7	.0	.1	.3	.3	.8	.0	.6	.8	.0	.2	.1	.0	.0	.2	
8-9	.0	.8	.1	.1	.8	.0	.3	.0	.0	.8	.1	.0	.0	.1	
10-11	.0	.8	.8	.2	.8	.0	.4	.0	.8	.8	.8	.8	.0	.1	
12	.0	.8	.8	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.8	.1	.2	.8	.4	.0	.0	.8	.8	.8	.0	.8	
17-19	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.8	.8	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	
TOT PCT	.2	1.7	1.9	1.3	.4	.8	9.7	.3	1.4	1.4	.4	.8	.0	3.5	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.0	3.3	.2	.0	.0	.0	7.6	
1-2	1.3	16.6	6.3	.0	.0	.0	24.3	
3-4	.3	9.2	18.7	1.4	.0	.0	29.6	
5-6	.8	2.2	14.2	3.2	.1	.0	19.8	
7	.8	.3	6.0	3.3	.1	.0	9.9	
8-9	.8	.1	1.8	2.0	.1	.0	4.1	
10-11	.8	.8	.7	1.4	.2	.8	2.4	
12	.0	.1	.2	.3	.1	.0	.9	
13-16	.8	.1	.1	.3	.3	.0	1.0	
17-19	.0	.8	.0	.8	.1	.0	.1	
20-22	.0	.0	.8	.8	.0	.0	.8	
23-25	.0	.0	.0	.8	.8	.0	.1	
26-32	.0	.0	.0	.0	.0	.8	.8	
33-40	.0	.0	.0	.0	.0	.8	.8	
41-48	.0	.0	.0	.0	.0	.8	.8	
49-60	.0	.0	.0	.0	.0	.8	.8	
61-70	.0	.0	.0	.0	.0	.8	.8	
71-86	.0	.0	.0	.0	.0	.8	.8	
87+	.0	.0	.0	.0	.0	.8	.8	
TOT PCT	3.9	32.2	46.3	12.4	1.0	.0	100.0	6237

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.9	8.8	12.6	6.7	2.6	.9	.5	.2	.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4311	4
6-7	.8	1.3	8.1	10.9	6.0	2.6	1.4	.4	.4	.1	.8	.8	.8	.8	.8	.8	.8	.8	.8	4117	5
8-9	.8	.3	1.9	3.6	4.6	2.4	1.3	.8	.3	.1	.8	.8	.8	.8	.8	.8	.8	.8	.8	2043	7
10-11	.0	.0	.4	.6	1.0	1.0	.3	.3	.4	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	621	8
12-13	.0	.0	.0	.4	.2	.2	.3	.2	.2	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	266	8
3-13	.0	.0	.0	.1	.2	.1	.1	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	83	10
INDET	1.7	1.9	2.8	2.2	1.4	.7	.3	.1	.1	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	1481	4
TOTAL PCT	3.6	12.6	26.2	24.6	16.0	8.0	4.5	1.9	1.6	.3	.2	.1	.8	.0	.0	.0	.0	.0	.0	13122	5

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1854-1976

AREA 0011 PORTO ALEGRE
30.65 49.0W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TEMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
90+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	30	.1
81/82	.5	1.4	.8	.1	.1	.0	.0	.0	.0	.0	.0	.1	203	.3
79/80	2.6	7.7	5.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	1120	1.4
77/78	12.0	29.9	19.3	4.3	.3	.1	.1	.1	.1	.1	.2	1.4	4119	5.1
75/76	25.9	31.1	29.0	14.8	2.6	.6	.1	.1	.1	.1	.6	6.6	7472	9.2
73/74	32.2	25.8	26.4	25.8	10.0	2.3	.5	.2	.1	.9	4.9	22.9	10008	12.3
71/72	17.3	8.7	12.4	22.7	17.6	8.2	2.4	1.1	1.5	3.7	13.7	28.7	9294	11.4
69/70	6.4	2.4	4.4	16.1	20.0	11.7	7.4	4.8	5.0	8.7	22.3	22.1	8928	11.0
67/68	2.2	.6	1.4	9.4	18.2	13.4	12.0	12.0	12.5	19.0	25.3	11.9	9522	11.7
65/66	.6	.2	.4	3.8	13.5	14.3	17.7	14.1	15.3	20.5	19.7	4.2	7884	9.7
63/64	.2	.1	.2	2.2	10.5	15.6	14.3	16.0	18.8	20.4	11.0	1.5	7562	9.3
61/62	.1	.1	.1	.2	4.0	11.2	11.7	11.5	13.9	12.0	3.8	.3	4696	5.8
59/60	.0	.0	.0	.1	1.8	9.6	12.7	11.6	11.6	7.4	1.6	.0	3859	4.7
57/58	.0	.0	.0	.0	.9	5.9	11.2	10.5	9.6	4.1	.6	.0	2920	3.6
55/56	.0	.0	.0	.0	.3	3.2	8.2	9.8	7.1	2.2	.1	.0	2110	2.6
53/54	.0	.0	.0	.0	.1	1.2	3.8	5.4	2.6	.7	.0	.0	968	1.2
51/52	.0	.0	.0	.0	.0	.4	2.0	2.4	1.0	.1	.0	.0	406	.5
49/50	.0	.0	.0	.0	.0	.1	.7	.3	.0	.0	.0	.0	125	.2
47/48	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	24	.0
45/46	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
427	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	6463	6582	6943	7054	7380	7289	7043	6449	6322	6678	6630	6098	81271	180.0
MEAN	73.8	73.3	74.6	71.8	68.2	64.6	62.1	61.6	62.3	64.3	67.6	71.0	68.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1011	1012	1012	1012	1011	1012	1012	3527
FEB	1013	1013	1012	1011	1013	1014	1012	1011	1013	3503
MAR	1014	1014	1013	1013	1013	1013	1014	1013	1014	3649
APR	1016	1016	1016	1015	1017	1017	1016	1015	1016	4029
MAY	1018	1017	1017	1018	1018	1018	1017	1016	1017	4123
JUN	1018	1018	1018	1018	1019	1018	1017	1017	1018	3634
JUL	1020	1020	1020	1019	1021	1020	1019	1018	1020	3724
AUG	1019	1018	1018	1016	1020	1019	1018	1016	1019	3527
SEP	1018	1018	1017	1017	1019	1018	1017	1016	1018	3415
OCT	1017	1016	1016	1013	1017	1016	1016	1014	1016	3250
NOV	1014	1015	1013	1012	1013	1013	1014	1013	1014	3634
DEC	1012	1012	1011	1012	1013	1013	1012	1011	1012	3010
ANN	1016	1016	1015	1014	1017	1016	1015	1014	1016	4343
OBS	8283	8916	8440	828	8370	8178	8134	846		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	995	1000	1004	1009	1012	1013	1019	1021	1027
FEB	995	1002	1005	1010	1013	1016	1020	1022	1028
MAR	996	1003	1006	1011	1014	1017	1022	1023	1028
APR	999	1003	1007	1013	1016	1020	1024	1027	1031
MAY	994	1002	1008	1014	1018	1021	1026	1029	1032
JUN	993	1002	1007	1014	1018	1022	1027	1030	1033
JUL	993	1004	1010	1016	1020	1024	1029	1032	1037
AUG	992	1002	1005	1015	1019	1023	1028	1031	1037
SEP	997	1002	1007	1014	1018	1022	1027	1029	1033
OCT	992	1001	1006	1012	1016	1020	1025	1028	1033
NOV	991	1002	1006	1011	1014	1019	1022	1024	1030
DEC	991	998	1003	1009	1012	1016	1020	1023	1030

PERIOD: (PRIMARY) 1911-1973
(OVER-ALL) 1857-1973

JANUARY

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	ORZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	1.9	.2	2.2	.0	.0	.0	.0	4.2	2.2	1.6	1.6	.0	1.4	.0	89.1
NE	2.3	.7	.9	.0	.0	.0	.0	3.9	1.5	1.2	1.4	.0	1.2	.0	90.9
E	2.4	1.8	1.2	.0	.0	.0	.0	3.4	.4	.3	1.6	.0	.3	.0	91.9
SE	1.9	1.6	.3	.0	.0	.0	.0	4.0	1.3	1.3	1.9	.0	.0	.0	91.6
S	3.8	2.4	1.1	.0	.0	.0	.0	7.0	1.3	.8	.4	.0	.0	.0	90.4
SW	2.4	1.3	.0	.0	.0	.0	.0	3.7	1.3	.6	.2	.0	.6	.0	93.4
W	3.3	.0	.0	.0	.0	.0	.0	3.3	.7	4.3	1.0	.0	.0	.0	91.1
NW	2.4	1.1	2.7	.0	.0	.0	.0	6.2	2.1	3.8	2.2	.0	1.1	.0	84.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	1.7	1.7	3.4	1.7	3.1	.0	.0	.0	89.8
TOT PCT	2.3	1.2	1.0	.0	.0	.0	.1	4.7	1.4	1.3	1.7	.0	.7	.0	90.7
TOT OBS:	1916														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	PRIS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0800	2.4	1.4	.9	.0	.0	.0	.0	4.7	1.7	2.6	2.4	.0	.2	.0	88.9
0809	3.1	1.1	1.4	.0	.0	.0	.0	3.6	2.0	3.1	.6	.0	.3	.0	89.1
1215	1.9	1.2	1.0	.0	.0	.0	.2	4.2	.7	.3	1.2	.0	.7	.0	93.1
1821	2.8	.8	1.1	.0	.0	.0	.0	4.4	1.9	.2	1.7	.0	1.3	.0	90.3
TOT PCT TOT OBS:	2.4 1945	1.1	1.1	.0	.0	.0	.1	4.7	1.3	1.4	1.3	.0	.7	.0	90.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.8	6.3	9.9	1.0	.0	.0		13.8	11.6	9.7	11.9	16.2	17.3	17.6	14.8	11.3	10.8	
NE	.9	11.6	10.6	1.4	.0	.0		24.5	11.6	29.6	29.7	23.2	23.3	21.8	20.1	23.3	19.9	
E	1.1	3.3	9.3	.8	.0	.0		15.6	10.4	17.6	18.4	12.7	19.7	12.8	14.3	14.6	22.8	
SE	.8	6.7	5.2	1.2	.1	.0		14.1	11.9	17.6	16.2	13.1	11.6	12.3	13.8	13.0	14.6	
S	.8	4.4	4.9	1.6	.2	.0		12.1	13.4	12.3	10.0	9.6	11.5	12.4	11.9	13.0	13.9	
SW	.4	2.7	2.9	1.3	.4	.1		7.9	13.6	9.8	7.0	8.1	6.1	7.9	9.9	9.9	7.5	
W	.5	1.9	1.1	.3	.1	.1		4.0	12.2	2.6	1.4	3.1	4.1	4.6	3.4	3.9	4.3	
NW	.5	3.7	2.8	.4	.0	.0		5.8	10.7	3.4	4.6	3.6	6.1	7.7	7.4	4.2	3.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3	.0	.0	.0	.0	.0		2.3	.0	3.0	.8	4.0	1.0	2.9	1.7	2.6	1.4	
TOT OBS	498	2702	2318	504	51	20	6090		11.7	1039	727	133	390	1083	1043	774	339	
TOT PCT	8.2	44.4	38.0	8.3	.8	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	3.1	7.7	2.9	.2	.0			13.8	11.6	10.8	17.1	16.3
NE	5.0	14.0	5.2	.3	.0			24.6	11.6	29.1	25.3	21.0
E	4.6	8.4	2.3	.2	.0			13.8	10.4	17.9	13.8	13.6
SE	3.4	7.5	2.7	.3	.0			14.1	11.9	16.7	12.4	13.0
S	2.7	3.2	3.3	.6	.1			12.1	13.4	11.3	10.3	12.1
SW	1.6	3.2	2.1	.7	.3			7.9	13.6	6.3	7.3	8.9
W	1.3	1.8	.4	.1	.1			4.0	12.2	2.1	4.7	5.2
NW	1.6	2.9	.8	.1	.0			5.8	10.7	3.9	3.8	7.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	2.3	.0	.0	.0	.0			2.3	.0	2.1	2.9	2.3
TOT OBS	1376	3085	1224	171	34	6090		11.7	1786	1043	2128	1133
TOT PCT	22.9	50.7	20.1	2.8	.6			100.0		100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	2.1	4.6	42.9	40.1	8.8	1.1	.4	12.2	100.0	1786
0600Z	2.9	3.9	44.1	38.4	7.7	.8	.3	11.6	100.0	1043
1200Z	2.2	6.8	43.9	33.7	8.1	.9	.3	11.4	100.0	2128
1800Z	2.2	3.9	44.1	38.7	8.3	.4	.3	11.7	100.0	1133
TOT	143	285	2702	2319	504	51	20	11.7		6090
PCT	2.3	5.6	44.4	38.0	8.3	.8	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
M	6.0	2.3	3.2	1.9		3.4
NE	10.7	4.6	7.1	3.0		3.6
E	4.4	3.0	1.4	1.4		3.7
SE	3.1	2.9	3.7	1.0		3.6
S	3.2	4.2	3.9	1.6		3.7
SW	2.3	3.2	2.3	1.0		3.8
W	1.8	.4	.9	.3		3.3
NW	2.3	.9	.9	.9		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.4	.4	.6	.8		.0
TOT OBS	461	231	299	139	1149	3.6
TOT PCT	40.1	21.0	25.9	12.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
M	.2	.0	.1	.4	.7	1.3	.9	.8	.1	.1	.0	10.2
NE	.4	.0	.1	.8	1.3	2.7	.6	.2	.1	.1	.2	19.0
E	.0	.0	.1	.2	.8	.7	.6	.3	.0	.0	.1	9.4
SE	.1	.0	.1	.2	.8	.7	1.0	.1	.1	.0	.0	9.7
S	.0	.0	.1	.1	1.4	1.6	1.0	.9	.0	.0	.0	10.7
SW	.0	.0	.0	.1	.3	2.0	.3	.1	.0	.0	.0	6.1
W	.0	.0	.0	.1	.3	.3	.3	.0	.0	.0	.0	2.2
NW	.1	.0	.0	.1	.2	.3	.2	.1	.1	.0	.0	3.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.1	.0	.2	.3	.0	.0	.0	.0	.0	2.9
TOT OBS	11	0	4	22	72	119	34	10	6	3	846	1149
TOT PCT	1.0	.0	.3	1.9	6.3	10.4	4.7	.9	.3	.4	73.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (M-)

CEILING (FEET)	VSBY (NM)			
	>10	>5	>2	>1
>0	.0	.0	.0	.0
>1000	1.1	1.6	1.6	1.6
>2000	4.3	5.7	5.9	6.0
>3000	11.2	15.3	16.1	16.2
>4000	14.8	21.1	22.4	22.5
>5000	18.9	22.8	24.3	24.4
>6000	19.1	23.2	24.8	24.9
>7000	19.1	23.2	24.8	24.9
>8000	19.1	23.2	24.8	24.9
>9000	19.1	23.2	24.8	24.9
>10000	19.1	23.2	24.8	24.9
>11000	19.1	23.2	24.8	24.9
>12000	19.1	23.2	24.8	24.9
>13000	19.1	23.2	24.8	24.9
>14000	19.1	23.2	24.8	24.9
>15000	19.1	23.2	24.8	24.9
>16000	19.1	23.2	24.8	24.9
>17000	19.1	23.2	24.8	24.9
>18000	19.1	23.2	24.8	24.9
>19000	19.1	23.2	24.8	24.9
>20000	19.1	23.2	24.8	24.9
TOTAL	187	270	293	293

TOTAL NUMBER OF OBS: 1139

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
25.6	14.4	14.2	10.9	8.6	4.9	7.8	6.8	8.3	.8	1308

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.9	.2	.0	.1	.0	.0	.1	.0	.1	.9	
	TOT %	.1	.9	.2	.0	.1	.0	.0	.1	.0	.1	.9	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.1	.3	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.9	
	NO PCP	.1	.9	.0	.0	.0	.0	.1	.0	.0	.0	.4	
	TOT %	.1	.9	.1	.0	.0	.0	.1	.0	.1	.1	.4	
2<5	PCP	.0	.2	.1	.1	.2	.0	.1	.1	.0	.0	.7	
	NO PCP	.9	.8	.9	.2	.9	.2	.0	.1	.0	.0	2.0	
	TOT %	.9	.8	.4	.3	.4	.2	.1	.1	.0	.0	2.7	
5<10	PCP	.4	.4	.4	.2	.4	.3	.2	.2	.0	.0	2.5	
	NO PCP	2.6	4.6	3.8	2.5	1.7	1.2	.8	1.2	.0	.3	18.9	
	TOT %	3.0	5.2	4.2	2.7	2.1	1.6	.9	1.3	.0	.3	21.4	
10+	PCP	.2	.2	.2	.1	.3	.0	.0	.1	.0	.0	1.1	
	NO PCP	10.1	10.6	10.2	9.9	10.3	6.8	3.0	3.4	.0	2.7	79.0	
	TOT %	10.3	10.7	10.4	9.9	10.7	6.8	3.0	3.5	.0	2.7	74.1	
TOT OBS													1814
TOT PCT													14.0 29.4 19.9 13.1 13.3 8.9 4.0 5.1 .0 3.3 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.2	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.0	.0	.0	.0	.1	.0	.1	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.0	.1	.0	.0	.0	.1	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.4	.1	.1	.2	.2	.0	.0	.0	.0	1.3	
	11-21	.1	.3	.1	.0	.2	.1	.0	.0	.0	.0	1.1	
	22+	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.4	
	TOT %	.4	1.0	.4	.3	.4	.3	.1	.1	.0	.0	2.9	
5<10	0-3	.1	.1	.1	.2	.1	.1	.0	.1	.0	.2	.9	
	4-10	.8	1.8	1.3	1.0	.5	.4	.3	.4	.0	.0	6.6	
	11-21	1.4	2.2	1.4	.9	.9	.6	.4	.4	.0	.0	8.2	
	22+	.1	.4	.3	.4	.3	.1	.1	.0	.0	.0	2.0	
	TOT %	2.4	4.5	3.3	2.5	2.0	1.3	.7	.9	.0	.2	17.6	
10+	0-3	.4	.6	.4	.3	.4	.3	.4	.3	.0	2.2	5.2	
	4-10	3.2	8.5	6.0	5.3	3.3	2.0	1.2	2.0	.0	.0	33.5	
	11-21	4.8	8.7	6.3	4.5	4.9	2.7	1.0	1.6	.0	.0	32.7	
	22+	.7	1.0	.4	.6	1.6	1.3	.2	.2	.0	.0	6.4	
	TOT %	11.2	18.8	11.2	10.9	10.3	6.4	2.8	4.0	.0	2.2	77.7	
TOT OBS													2897
TOT PCT													14.2 24.8 19.1 13.8 12.7 8.0 3.6 3.2 .0 2.6 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	1.9	.0	.7	1.3	6.4	9.4	4.9	.7	.7	.4	26.6	73.4	267
0600Z	1.2	.0	.0	.4	6.3	6.9	2.8	.4	.0	.0	18.3	81.7	246
1201Z	.8	.0	.8	2.5	6.1	10.4	4.9	1.4	.0	.3	27.4	72.6	369
1802Z	.3	.0	.3	2.2	5.1	10.7	4.4	.5	.5	.8	24.8	75.2	367
TOT	11	0	6	22	76	119	34	10	4	5	307	938	1245
PCT	.9	.0	.5	1.8	6.1	9.6	4.3	.8	.3	.4	24.7	75.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.9	.1	.4	3.6	19.1	73.8	768
0600Z	.4	.2	.4	3.1	21.2	74.8	332
1201Z	.6	.4	.7	2.4	16.3	79.4	943
1802Z	.5	.2	1.1	2.4	15.8	80.1	869
TOT	18	7	19	84	523	2273	2926
PCT	.6	.2	.6	2.9	17.9	77.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
0000Z	2.0	3.2	7.7	20.6	71.8	248
0600Z	1.3	1.7	3.0	16.3	80.3	231
1201Z	.6	1.8	6.7	24.3	68.6	327
1802Z	.3	.8	3.1	21.3	73.4	333
TOT	11	31	66	243	848	1159
PCT	.9	1.8	9.7	21.1	73.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
98/94	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
89/89	.0	.0	.3	.1	.2	.0	.2	.0	8	.8
80/84	.0	.0	.0	.2	.7	1.1	.8	.0	28	2.7
79/79	.0	.0	.0	.4	1.9	4.7	4.8	3.1	153	15.0
70/74	.0	.0	.4	2.0	5.4	9.8	13.2	13.0	473	45.8
63/69	.0	.0	.3	2.1	4.7	7.0	7.2	6.2	284	27.3
60/64	.0	.0	.0	.6	2.9	1.8	1.3	.8	72	7.0
55/59	.0	.0	.0	.0	.7	.2	.5	.1	10	1.0
50/54	.0	.0	.0	.0	.1	.1	.0	.0	1	.1
TOTAL	0	1	10	34	172	233	309	239	1032	100.0
PCT	.0	.1	1.0	3.4	17.7	24.7	29.9	23.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
98/94	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
89/89	.0	.4	.1	.0	.0	.0	.1	.2	.0	.0
80/84	.0	1.1	.3	.3	.0	.1	.0	.2	.0	.0
79/79	.0	4.7	2.1	1.2	.6	1.0	1.0	1.4	.0	.1
70/74	.0	12.3	7.7	5.3	3.1	2.9	7.6	2.5	.0	.3
63/69	.0	3.8	6.3	5.8	4.4	1.7	.9	.8	.0	.3
60/64	.0	.2	.0	.8	2.3	1.7	.6	.4	.0	.2
55/59	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1
50/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	14.6	22.3	16.7	13.7	12.7	8.8	4.2	3.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	86	80	76	70	63	58	54	70.1	1773
0600Z	84	77	74	69	62	57	52	69.0	1039
1201Z	91	82	78	72	64	60	56	71.3	2067
1802Z	91	83	81	73	64	61	58	73.1	1090
TOT	91	82	78	71	63	59	52	70.5	5970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.0	12.0	23.9	32.8	26.3	81	239		239
0600Z	.0	1.0	13.0	20.3	32.8	32.3	82	192		192
1201Z	.0	6.1	12.8	28.0	29.3	23.7	80	329		329
1802Z	.0	12.1	24.3	24.3	26.0	12.8	73	273		273
TOT	0	69	165	240	316	243	79	1033		1033

JANUARY

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1857-1975

AREA 0012 BUENOS AIRES
34.45 52.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.1	.3	.1	.1	8	.1	.4
11/13	.0	.0	.0	.1	.1	.2	.1	.2	.1	.2	.1	.2	.1	.1	.1	14	.1	.8
9/10	.0	.0	.0	.0	.2	.2	.4	.1	.1	.1	.1	.2	.1	.1	.1	19	.1	1.1
7/8	.0	.0	.0	.1	.5	.8	1.3	.2	.1	.0	.0	.2	.1	.0	.0	30	.0	2.0
6	.0	.0	.0	.1	.1	.5	1.0	.2	.0	.0	.0	.2	.0	.0	.0	32	.0	1.9
5	.0	.0	.1	.2	1.1	1.6	1.6	.2	.0	.0	.0	.2	.0	.0	.0	82	.1	4.0
4	.0	.0	.1	.7	1.4	2.6	1.3	.2	.0	.0	.0	.2	.0	.0	.0	106	.2	6.1
3	.0	.1	.1	.1	1.1	2.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	82	.2	4.7
2	.0	.0	.3	.6	3.3	4.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	163	.3	9.2
1	.0	.0	.1	.6	3.7	3.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	147	.1	8.7
0	.1	.0	.3	2.1	6.6	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	232	.1	13.6
-1	.0	.0	.4	1.2	3.8	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	134	.1	9.1
-2	.0	.0	.8	1.8	3.0	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	132	.1	9.0
-3	.1	.0	.7	2.4	4.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	133	.0	7.9
-4	.0	.2	.4	2.8	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	.0	3.3
-5	.0	.1	.9	2.2	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	76	.2	4.3
-6	.0	.1	.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.0	2.4
-7/-8	.1	.2	2.0	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.0	3.9
-9/-10	.0	.1	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	1.2
-11/-13	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.0	.8
-14/-16	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	3	18	132	30	423	23.1	8.6	1.7	.7	.2	3	1685	1.6	98.4				
PCT	.2	1.1	7.8	17.0	36.7	23.1	8.6	1.7	.7	.2	3	1685	1.6	98.4				

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.2	2.3	.0	.0	.0	.0	2.3
1-2	.0	1.6	.7	.0	.0	.0	2.2	.2	3.3	1.2	.0	.0	.0	4.9
3-4	.2	1.9	2.3	.0	.0	.0	4.6	.0	2.9	3.9	.3	.0	.0	7.2
5-6	.0	.3	2.8	.3	.0	.0	2.8	.0	1.1	3.3	.6	.0	.0	5.0
7	.0	.0	1.1	.2	.0	.0	1.3	.0	.0	2.9	.7	.0	.0	3.6
8-9	.0	.0	.3	.3	.0	.0	.7	.0	.0	1.1	.3	.0	.0	1.6
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.2	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	4.9	1.1	.0	.0	12.7	.3	9.9	12.8	2.4	.0	.0	23.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.3	.0	.0	.0	1.3	.3	.9	.0	.0	.0	.0	1.4
1-2	.2	1.9	.8	.0	.0	.0	2.9	.0	2.1	1.3	.0	.0	.0	3.3
3-4	.0	1.3	1.6	.3	.0	.0	3.2	.0	.6	2.8	.0	.0	.0	3.4
5-6	.0	.2	1.8	.0	.0	.0	2.0	.0	.7	1.3	.2	.0	.0	2.2
7	.0	.0	.6	.3	.0	.0	1.1	.0	.2	1.0	.2	.0	.0	1.4
8-9	.0	.0	.9	.0	.0	.0	.2	.0	.3	.4	.3	.0	.0	1.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.4	3.8	.9	.0	.0	11.3	.3	4.8	7.1	.9	.0	.0	13.3

PERIOD: (OVER-ALL) 1949-1975

JANUARY
TABLE 18 (CONT)

AREA 0012 BUENOS AIRES
34.43 52.7M

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
1-2	.2	1.4	.7	.0	.0	.0	2.3	.0	.0	.3	.0	.0	.0	1.3
3-4	.0	1.2	1.1	.2	.0	.0	2.4	.0	.0	.8	.0	.0	.0	1.9
5-6	.0	.2	2.1	.2	.0	.0	2.4	.0	.3	.3	.5	.0	.0	1.1
7	.0	.1	2.0	.5	.0	.0	2.6	.0	.2	.8	.2	.0	.0	1.2
8-9	.0	.0	.9	.5	.0	.0	1.6	.0	.2	1.1	.7	.2	.0	2.2
10-11	.0	.0	.8	.7	.0	.0	1.2	.0	.0	.9	.3	.0	.0	1.2
12	.0	.0	.8	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	7.3	2.5	.0	.0	14.0	.2	2.6	4.1	1.8	.2	.0	8.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.1	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.7	.0	.0	.0	.0	.7	.2	1.4	.3	.0	.0	.0	1.9	
3-4	.0	.1	.9	.0	.0	.0	1.1	.0	.0	.9	.0	.0	.0	1.9	
5-6	.0	.3	.2	.0	.0	.0	.4	.0	.1	.3	.0	.0	.0	.3	
7	.0	.0	.2	.2	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.9	.2	.0	.0	.3	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.3	1.6	.2	.0	.0	3.3	.2	2.3	1.9	.3	.0	.0	4.8	93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	0.3	0.9	0.3	.0	.0	.0	15.1	005
1-2	.9	15.6	5.1	.0	.0	.0	19.6	
3-4	.3	9.4	14.3	.9	.0	.0	25.0	
5-6	.0	3.1	11.2	1.7	.0	.0	16.0	
7	.0	.3	8.8	2.4	.0	.0	11.7	
8-9	.0	.3	4.3	2.7	.2	.0	7.5	
10-11	.0	.0	2.4	1.9	.0	.0	4.3	
12	.0	.0	.3	.3	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	33.3	46.8	9.9	.2	.0	100.0	300

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	10.6	17.5	8.1	3.8	1.8	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	459	4
6-7	.0	1.6	4.3	7.8	5.4	2.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	6
8-9	.0	.2	1.3	2.3	1.9	1.2	.8	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
10-11	.0	2.2	.3	.2	.1	.3	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
12-13	.0	.0	1.4	.3	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	3
13-19	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
19-25	3.4	3.4	3.0	2.0	1.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	2
TOTAL	93	179	281	210	190	74	31	9	6	2	0	0	0	0	0	0	0	0	0	1009	4
PCT	9.3	17.8	28.0	20.9	12.9	7.4	3.1	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(COVER-ALL) 1864-1976

FEBRUARY

AREA 0012 BUENOS AIRES
34.95 52.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC BLWC SNOW	
N	1.8	.8	.7	.0	.0	.0	.0	3.3	2.7	1.4	2.7	.0	.2	.0	90.3
NE	2.3	.4	.2	.0	.0	.0	.0	2.8	.5	1.3	1.3	.0	.2	.0	94.2
E	2.6	.3	.9	.0	.0	.0	.0	4.0	2.8	1.3	.3	.0	.0	.0	92.3
SE	3.4	1.4	1.0	.0	.0	.0	.0	3.8	.5	1.8	.5	.0	.0	.0	92.2
S	3.3	2.3	1.1	.0	.0	.0	.0	6.8	1.7	1.2	.0	.0	.0	.0	90.4
SW	3.7	1.9	.5	.0	.0	.0	.0	6.1	1.7	2.8	.0	.0	.8	.0	89.9
W	1.7	.0	.0	.0	.0	.0	.0	1.7	.8	.6	.0	.0	.0	.0	97.1
NW	1.7	.0	.0	.0	.0	.0	.0	2.5	1.1	1.3	.0	.0	.0	.0	95.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
CALM	2.7	.0	4.1	.0	.0	.0	.0	6.8	.0	2.7	1.4	.0	1.4	.0	87.8
TOT PCT	2.6	.9	.7	.0	.0	.0	.0	4.2	1.4	1.8	.8	.0	.2	.0	92.3
TOT OBS	2192														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWC BLWC SNOW	
0600	3.3	.4	1.2	.0	.0	.0	.0	4.9	1.4	4.3	1.6	.0	.0	.0	89.1
0800	3.0	1.3	.9	.0	.0	.0	.0	3.4	1.8	2.8	.2	.0	.0	.0	90.6
1201	3.0	1.2	.3	.0	.0	.0	.0	4.8	1.3	.3	.7	.0	.3	.0	93.1
1802	1.3	.5	.5	.0	.0	.0	.0	2.4	1.4	.2	.7	.0	.7	.0	94.5
TOT PCT	2.7	.9	.7	.0	.0	.0	.0	4.2	1.4	1.7	.8	.0	.3	.0	92.0
TOT OBS	2196														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21		
N	.8	6.3	3.9	.7	.0	.0		13.8	11.4		8.9	14.3	14.0	19.2	18.4	13.8	11.3	12.3		
NE	.9	10.9	11.2	1.3	.1	.0		24.4	11.8		27.7	29.3	26.1	29.0	20.3	20.3	29.7	21.3		
E	.8	8.1	6.1	.5	.0	.0		13.6	10.6		19.9	17.1	13.8	12.8	13.2	14.3	15.5	18.2		
SE	.7	6.1	4.7	.7	.1	.0		12.4	11.1		14.9	12.7	10.8	10.3	10.9	12.8	11.9	14.8		
S	.9	4.2	4.9	1.3	.2	.0		11.3	13.0		12.0	10.7	11.7	11.2	10.4	10.1	14.3	12.3		
SW	.6	3.1	2.9	1.3	.3	.1		8.2	14.3		7.7	3.3	7.9	7.7	8.3	9.4	10.3	8.7		
W	.4	2.1	1.3	.4	.0	.0		4.3	11.6		3.0	3.2	4.3	3.4	6.0	6.4	4.0	4.8		
NW	.3	2.3	2.3	.5	.0	.0		6.3	11.2		3.6	4.3	6.6	6.8	8.9	9.8	3.0	3.9		
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.0							3.0	.0		2.4	2.4	4.8	3.3	3.4	2.7	2.3	1.3		
TOT OBS	563	2876	2363	441	93	7	6303		11.4		1142	726	743	421	1211	1019	846	393		
TOT PCT	8.7	44.2	39.4	6.8	.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+	48+					00	03	09	12	18
N	3.0	8.0	2.6	.2	.0	.0		13.8	11.4		11.1	15.9	16.3	11.7	
NE	4.3	14.7	3.0	.3	.0	.0		24.4	11.8		28.4	29.7	20.4	24.3	
E	4.1	8.9	2.6	.1	.0	.0		13.6	10.6		18.8	13.4	13.8	16.3	
SE	3.2	6.7	2.2	.2	.0	.0		12.4	11.1		14.1	10.7	11.7	12.6	
S	2.8	3.0	3.2	.4	.1	.0		11.3	13.0		11.3	11.3	10.3	13.7	
SW	1.9	3.4	2.2	.6	.2	.0		8.2	14.3		6.8	7.8	8.8	9.8	
W	1.3	1.8	1.0	.2	.0	.0		4.3	11.6		3.1	4.0	6.2	4.2	
NW	1.9	3.3	1.2	.2	.0	.0		6.3	11.2		3.9	6.7	9.3	3.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.0							3.0	.0		2.4	4.3	3.2	2.2	
TOT OBS	1978	3371	1291	141	22	6303			11.4		1868	1166	2230	1239	
TOT PCT	29.8	31.8	19.9	2.2	.3			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

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AREA 0012 BUENOS AIRES
34.33 52.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.9	2.4	1.3	14.2	2.7
NE	11.3	4.9	3.3	2.8	22.3	3.2
E	8.8	2.6	4.9	1.6	17.9	3.7
SE	4.1	2.1	2.0	1.8	9.9	3.4
S	4.8	3.3	3.6	1.7	13.4	3.7
SW	2.3	2.1	2.3	1.4	8.1	4.2
W	2.3	.9	1.0	.4	4.6	2.5
NW	3.9	.7	1.1	.7	6.4	2.7
VAR	.0	.0	.0	.0	.0	.0
CALM	2.3	.6	.0	.0	2.9	2.7
TOT OBS	67.4	27.6	34.8	16.2	145.7	3.3
TOT PCT	46.3	18.9	23.7	11.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.9	2.4	1.3	14.2	2.7
NE	11.3	4.9	3.3	2.8	22.3	3.2
E	8.8	2.6	4.9	1.6	17.9	3.7
SE	4.1	2.1	2.0	1.8	9.9	3.4
S	4.8	3.3	3.6	1.7	13.4	3.7
SW	2.3	2.1	2.3	1.4	8.1	4.2
W	2.3	.9	1.0	.4	4.6	2.5
NW	3.9	.7	1.1	.7	6.4	2.7
VAR	.0	.0	.0	.0	.0	.0
CALM	2.3	.6	.0	.0	2.9	2.7
TOT OBS	67.4	27.6	34.8	16.2	145.7	3.3
TOT PCT	46.3	18.9	23.7	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.9	2.4	1.3	14.2	2.7
NE	11.3	4.9	3.3	2.8	22.3	3.2
E	8.8	2.6	4.9	1.6	17.9	3.7
SE	4.1	2.1	2.0	1.8	9.9	3.4
S	4.8	3.3	3.6	1.7	13.4	3.7
SW	2.3	2.1	2.3	1.4	8.1	4.2
W	2.3	.9	1.0	.4	4.6	2.5
NW	3.9	.7	1.1	.7	6.4	2.7
VAR	.0	.0	.0	.0	.0	.0
CALM	2.3	.6	.0	.0	2.9	2.7
TOT OBS	67.4	27.6	34.8	16.2	145.7	3.3
TOT PCT	46.3	18.9	23.7	11.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>500	>0
>4000	.7	.9	1.0	1.0	1.0	1.0	1.0	1.0
>3000	2.4	2.6	2.8	2.8	2.8	2.8	2.8	2.8
>2000	4.8	6.1	6.3	6.3	6.3	6.3	6.3	6.3
>1000	11.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0
>400	16.1	21.1	22.4	22.4	22.4	22.4	22.4	22.4
>300	17.9	23.7	25.3	25.3	25.3	25.3	25.3	25.3
>200	18.1	23.9	25.6	25.7	25.7	25.7	25.7	25.7
>100	18.1	24.0	25.7	25.9	25.9	25.9	25.9	25.9
>0	18.3	24.3	26.1	26.4	26.4	26.4	26.4	26.4
TOTAL	269	338	384	388	388	388	388	388

TOTAL NUMBER OF OBS: 1472

PCT FREQ NM <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF (CW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS CO	TOTAL OBS
29.0	14.2	13.7	10.7	6.7	3.1	5.4	6.2	6.4	1633

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PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976AREA 0012 BUENOS AIRES
34.8S 52.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	
2<5	PCP	.1	.1	.1	.1	.1	.2	.0	.0	.0	.1	.0	
	NO PCP	.4	.4	.4	.2	.2	.2	.0	.2	.0	.0	.0	
	TOT %	.9	.9	.9	.9	.9	.9	.0	.2	.0	.1	.0	
5<10	PCP	.2	.3	.3	.2	.4	.2	.0	.1	.0	.1	.0	
	NO PCP	2.4	4.6	2.2	1.7	2.2	1.7	1.4	1.3	.0	.3	.0	
	TOT %	2.6	4.9	2.5	1.9	2.6	1.9	1.4	1.4	.0	.4	.0	
10+	PCP	.1	.2	.1	.1	.3	.2	.1	.0	.0	.0	.0	
	NO PCP	18.4	19.3	10.9	7.2	9.5	6.6	4.0	4.4	.0	2.9	.0	
	TOT %	18.5	19.4	11.0	7.3	9.8	6.8	4.1	4.5	.0	2.9	.0	
TOT OBS													
TOT PCT													
19.9 23.4 14.1 9.7 12.8 9.1 5.5 6.1 .0 3.4 100.0													

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TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.1	.1	.1	.0	.1	.0	.0	.0	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	
	4-10	.2	.3	.1	.1	.1	.1	.0	.1	.0	.1	.0	
	11-21	.2	.4	.3	.2	.1	.1	.0	.1	.0	.0	.0	
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	
	TOT %	.4	.9	.6	.3	.2	.2	.0	.2	.0	.1	.0	
5<10	0-3	.2	.1	.2	.1	.0	.1	.2	.1	.0	.5	.0	
	4-10	1.0	1.2	1.0	.2	.4	.2	.3	.6	.0	.0	.0	
	11-21	1.2	3.3	1.1	.7	1.1	.6	.3	.3	.0	.0	.0	
	22+	.1	.3	.1	.2	.4	.3	.1	.1	.0	.0	.0	
	TOT %	2.5	4.4	2.3	1.0	2.0	1.3	1.0	1.1	.0	.5	.0	
10+	0-3	.0	.3	.3	.3	.4	.2	.2	.2	.0	2.7	.0	
	4-10	3.6	8.4	6.6	4.3	4.1	2.6	1.3	2.4	.0	.0	.0	
	11-21	4.7	9.5	4.8	3.4	4.8	3.1	1.5	1.7	.0	.0	.0	
	22+	.4	.6	.3	.3	.8	.9	.2	.3	.0	.0	.0	
	TOT %	11.2	19.3	12.2	8.7	10.0	6.8	3.3	4.6	.0	2.7	.0	
TOT OBS													
TOT PCT													
14.2 24.8 19.2 11.0 12.4 8.7 4.9 3.9 .0 3.4 100.0													

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PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1884-1976AREA 0012 BUENOS AIRES
34.55 52.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, FM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.9	.3	.0	1.7	6.3	8.6	2.0	1.4	.6	.6	22.3	77.7	349
0600	.9	.0	.0	3.1	7.5	9.8	1.9	.3	.0	.6	23.3	76.7	318
1200	.2	.0	.6	2.3	5.9	9.2	4.6	2.7	.6	.2	26.4	73.6	477
1800	.0	.2	.2	3.6	5.4	9.3	3.9	1.8	.0	.9	25.4	74.6	441
TOT	7	2	4	43	98	149	32	27	5	9	390	1195	1588
PCT	.4	.1	.3	2.7	6.2	9.0	3.3	1.7	.3	.6	24.6	75.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	.2	.6	4.1	19.6	75.5	876
0600	.1	.0	.4	4.5	21.1	73.9	674
1200	.2	.2	1.0	8.3	14.3	81.8	1051
1800	.4	.1	.6	1.7	14.8	82.4	771
TOT	6	5	26	103	380	2684	3372
PCT	.2	.1	.7	3.1	17.2	78.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, FM >4/8) BY HOUR

HOUR (GMT)	<150 450VD	<600 CL	<1000 CL	1000+ ANOS+	NM <5/8 AND 5+	TOTAL OBS
0000	.9	1.3	5.3	19.5	75.2	318
0600	1.0	1.0	6.9	19.1	74.0	288
1200	.2	.9	9.6	25.4	71.0	449
1800	.0	.5	9.7	21.1	73.2	421
TOT	7	13	86	310	1076	1472
PCT	.5	.9	9.8	21.1	73.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
85/89	.0	.0	.1	.1	.2	.0	.0	.0	4	.4
80/84	.0	.0	.0	.4	1.0	1.3	.4	.2	33	3.3
75/79	.0	.0	.1	.8	2.1	5.8	6.9	4.9	209	20.7
70/74	.0	.0	.2	2.8	9.3	12.0	15.6	10.2	503	49.7
65/69	.0	.0	.2	1.7	4.9	4.2	5.6	3.4	202	20.0
60/64	.0	.0	.0	.5	2.1	1.7	1.2	.6	59	5.8
55/59	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
TOTAL	0	0	6	58	199	233	301	195	1012	100.0
PCT	.0	.0	.6	5.7	19.7	23.0	29.7	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
.7	.9	.8	.1	.0	.4	.1	.2	.0	.1
3.8	6.4	3.4	1.3	1.3	1.3	1.3	1.3	.0	.3
6.4	12.3	9.3	3.2	5.6	3.7	2.4	3.9	.0	.7
2.1	2.9	1.6	3.0	3.1	2.9	1.4	.9	.0	.3
.2	.3	.3	1.0	2.7	1.0	.3	.2	.0	.0
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13.1	23.1	15.5	10.5	14.7	9.4	5.6	6.5	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	85	79	77	72	63	59	55	71.0	1855
0600	82	78	75	70	62	58	55	69.3	1166
1200	90	83	79	73	64	60	54	72.4	2157
1800	90	84	82	74	63	61	57	73.9	1194
TOT	90	82	79	72	64	59	54	71.7	6372

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.3	16.0	21.9	32.8	23.0	80	236		
0600	.0	3.4	16.6	24.9	30.2	24.9	80	203		
1200	.0	3.4	18.3	25.3	33.0	17.9	78	312		
1800	.0	11.4	25.2	28.4	33.6	13.3	73	271		
TOT	0	66	200	263	313	202	75	1044		

PERIOD: (PRIMARY) 1912-1976
(OVER-ALL) 1864-1976

FEBRUARY

AREA 0012 BUENOS AIRES
34.33 52.9W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.1	7	.0	.4
11/13	.0	.0	.0	.0	.0	.1	.4	.3	.1	15	.0	.8
9/10	.0	.0	.0	.0	.3	.3	.7	.0	.0	25	.1	1.2
7/8	.0	.0	.0	.1	.3	1.8	.6	.0	.0	57	.0	2.9
6	.0	.0	.0	.1	.6	.9	.3	.1	.0	38	.0	1.9
5	.0	.0	.1	.9	1.8	2.1	.4	.0	.0	104	.0	5.2
4	.0	.0	.2	1.1	3.3	1.3	.1	.0	.0	119	.1	5.9
3	.0	.0	.2	.8	2.3	1.3	.3	.0	.0	95	.1	4.7
2	.0	.0	.6	2.8	4.8	1.4	.1	.0	.0	190	.2	9.4
1	.1	.1	.3	3.8	5.0	.9	.0	.0	.0	199	.2	9.8
0	.0	.3	.7	5.8	6.0	.9	.0	.0	.0	272	.2	13.5
-1	.0	.3	.9	5.8	2.2	.1	.0	.0	.0	184	.1	9.2
-2	.0	.3	2.1	5.0	1.7	.1	.0	.0	.0	182	.1	9.0
-3	.0	.6	1.6	3.1	.9	.1	.0	.0	.0	122	.0	6.1
-4	.0	.4	3.3	2.7	.3	.1	.0	.0	.0	132	.1	6.6
-5	.1	.5	2.4	1.5	.3	.0	.0	.0	.0	91	.0	4.6
-6	.1	.3	1.3	.7	.0	.0	.0	.0	.0	51	.0	2.6
-7/-8	.2	1.8	1.3	.6	.0	.0	.0	.0	.0	76	.0	3.8
-9/-10	.1	.6	.2	.2	.0	.0	.0	.0	.0	19	.0	1.0
-11/-13	.3	.3	.2	.0	.0	.0	.0	.0	.0	14	.0	.7
-14/-16	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	17	104	306	482	598	222	97	9	4	1997	17	1980
PCT	.9	5.2	15.3	34.2	29.8	11.1	2.9	.5	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.3	.6	.0	.0	.0	.0	.9	.2	.8	.1	.0	.0	.0	1.0
1-2	.3	2.2	.2	.0	.0	.0	2.8	.1	2.7	1.6	.0	.0	.0	4.4
3-4	.0	1.1	1.3	.0	.0	.0	2.4	.0	3.1	5.4	.1	.0	.0	8.7
5-6	.0	.4	2.6	.1	.0	.0	3.4	.0	.6	5.7	.4	.0	.0	6.7
7	.0	.0	.9	.2	.0	.0	1.1	.0	.3	3.3	.7	.0	.0	4.5
8-9	.0	.0	.2	.3	.0	.0	.6	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.3	.2	.0	.0	.6	.0	.0	.3	.2	.0	.0	.7
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	5.8	1.0	.0	.0	11.9	.3	7.4	16.9	1.9	.1	.0	26.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.2	1.4	.1	.0	.0	.0	1.7	.1	.7	.0	.0	.0	.0	.8
1-2	.1	2.8	.8	.0	.0	.0	3.6	.1	1.3	.3	.0	.0	.0	1.9
3-4	.1	1.2	2.4	.2	.0	.0	3.9	.0	1.3	1.9	.0	.0	.0	3.1
5-6	.0	.4	1.7	.0	.0	.0	2.2	.0	.1	1.0	.1	.0	.0	1.3
7	.0	.2	.2	.1	.0	.0	.6	.0	.1	.8	.3	.0	.0	1.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.0	5.7	.4	.0	.0	12.3	.2	3.7	4.4	.6	.0	.0	8.8

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0012 BUENOS AIRES
34.55 52.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.4	.0	.0	.0	.0	.6	.1	.4	.1	.0	.0	.0	.6	
1-2	.2	1.7	1.4	.0	.0	.0	3.3	.2	1.5	.4	.0	.0	.0	2.2	
3-4	.1	.6	2.7	.2	.0	.0	3.6	.1	.4	2.1	.0	.0	.0	2.5	
5-6	.0	.7	1.1	.4	.0	.0	2.2	.1	.2	1.0	.0	.0	.0	1.4	
7	.0	.1	1.6	.3	.0	.0	2.1	.0	.0	.6	.3	.0	.0	.9	
8-9	.0	.0	.4	.1	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.6	7.3	1.5	.0	.0	12.7	.4	2.5	4.3	.8	.0	.0	7.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.0	.0	.0	.0	.8	.3	.5	.1	.0	.0	.0	.9	
1-2	.1	1.0	.2	.0	.0	.0	1.3	.0	.7	.6	.0	.0	.0	1.3	
3-4	.0	.7	.8	.0	.0	.0	1.5	.0	.3	.9	.0	.0	.0	1.2	
5-6	.0	.1	.8	.1	.0	.0	1.0	.0	.1	.3	.5	.0	.0	.8	
7	.0	.0	.1	.0	.0	.0	.6	.0	.0	.3	.5	.0	.0	.8	
8-9	.0	.0	.1	.0	.0	.0	.3	.0	.0	.1	.1	.0	.0	.3	
10-11	.0	.0	.3	.1	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.4	3.2	.3	.0	.0	6.4	.3	1.6	2.6	.8	.0	.0	5.3	92.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.1	5.6	.5	.0	.0	.0	16.2	
1-2	1.5	4.2	5.3	.0	.0	.0	21.2	
3-4	.2	8.3	17.1	.6	.0	.0	26.3	
5-6	.1	2.7	14.4	1.1	.0	.0	18.4	
7	.0	.7	8.4	2.4	.0	.0	11.3	
8-9	.0	.0	1.5	.7	.0	.0	2.2	
10-11	.0	.0	1.5	1.0	.0	.0	2.5	
12	.0	.0	.2	.8	.0	.0	1.0	
13-16	.0	.0	.3	.2	.1	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	31.7	49.4	6.9	.1	.0	100.0	873

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	12.5	16.9	7.3	3.1	.6	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	563	3
6-7	.0	1.5	7.0	10.9	5.6	1.1	1.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	360	5
8-9	.0	.3	1.0	1.9	2.2	.9	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
10-11	.0	2.4	.2	.2	.3	.1	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	4
12-13	.0	.0	1.5	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	5
>13	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDENT	3.9	2.9	3.5	3.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	3
TOTAL	85	294	391	308	198	39	40	9	11	1	0	0	0	0	0	0	0	0	0	1296	4
PCT	6.6	19.6	30.2	23.8	12.2	3.0	3.1	.7	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

MARCH

AREA 0012 BUENOS AIRES
34.95 52.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	2.7	1.0	.2	.0	.0	.0	.0	3.9	.3	3.3	1.6	.4	2.5	.0	89.3
NE	1.5	2.1	.4	.0	.0	.0	.0	4.1	.2	1.7	4.1	.0	.7	.0	89.2
E	3.1	2.2	1.3	.0	.0	.0	.0	6.8	2.0	.2	1.8	.0	.0	.0	89.2
SE	3.8	3.6	.6	.0	.0	.0	.0	9.9	1.5	.1	1.1	.4	.4	.0	86.6
S	4.4	3.4	.4	.0	.0	.0	.0	8.2	1.9	1.3	2.5	.0	.0	.0	86.1
SW	2.7	1.6	.0	.0	.0	.0	.0	4.2	1.2	1.9	2.7	.0	.3	.0	90.0
W	3.3	3.1	.8	.0	.0	.0	.0	7.3	2.3	.8	3.8	.8	.0	.0	83.0
NW	3.4	.8	.0	.0	.0	.0	.0	4.2	1.1	2.1	3.4	.0	.0	.0	89.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	90.9
TOT PCT	3.1	2.2	.5	.0	.0	.0	.0	5.8	1.1	1.5	2.8	.1	.5	.0	88.4
TOT OBS:	2381														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000Z	4.0	2.4	.3	.0	.0	.0	.0	6.8	.3	2.8	3.8	.0	.3	.0	86.2
0600Z	4.1	2.4	.0	.0	.0	.0	.0	4.5	1.2	2.8	4.9	.3	.0	.0	86.6
1201Z	2.3	2.0	.8	.0	.0	.0	.0	5.2	1.5	.3	1.6	.3	1.1	.0	90.2
1802Z	2.4	2.1	.8	.0	.0	.0	.0	5.3	1.3	.6	1.3	.0	.3	.0	91.4
TOT PCT	3.1	2.2	.5	.0	.0	.0	.0	5.9	1.1	1.5	2.7	.1	.5	.0	88.4
TOT OBS:	2440														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	48+				00	03	06	09	12	15	18	21
N	.7	9.8	9.7	.8	.1	.0		13.0	11.8		8.7	14.3	12.8	19.6	14.2	14.1	10.2	10.1
NE	.8	9.3	11.0	1.7	.1	.0		23.2	18.3		26.4	24.1	26.2	20.3	21.0	19.2	23.1	22.0
E	.8	6.5	8.6	.8	.0	.0		13.7	11.2		17.1	14.8	13.8	9.8	10.3	12.4	14.3	18.9
SE	.8	6.1	9.1	1.0	.2	.0		13.2	11.7		12.9	14.0	12.7	14.1	12.6	14.0	11.9	15.1
S	1.0	5.1	8.4	1.7	.2	.0		13.8	13.0		13.1	11.2	13.1	12.2	12.7	13.7	14.8	15.7
SW	.5	3.2	4.4	1.6	.3	.0		10.2	15.0		10.6	8.3	9.8	8.0	10.9	9.4	13.8	8.8
W	.4	1.9	1.3	.6	.2	.0		4.6	13.3		3.4	3.4	4.1	3.3	3.9	6.3	4.2	3.0
NW	.4	3.3	2.0	.3	.2	.0		6.4	11.6		4.1	3.8	3.7	3.4	3.5	3.8	3.4	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		2.2	2.0	3.0	2.2	1.9	1.8	2.3	2.3
TOT OBS	339	3028	2977	658	94	8	7317		12.2		1298	893	826	498	1294	1117	908	481
TOT PCT	7.6	41.4	40.7	9.0	1.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	41+	41+				00	06	12	18
N	2.8	7.1	2.8	.3	.0			13.0	11.8		11.0	15.4	15.2	10.2
NE	3.8	13.6	5.2	.5	.0			23.2	18.3		26.3	24.0	20.2	22.8
E	3.2	8.1	2.1	.3	.0			13.7	11.2		16.2	12.1	11.3	15.7
SE	3.4	7.0	2.2	.4	.1			13.2	11.7		13.1	13.2	13.4	13.0
S	3.2	6.1	3.3	.6	.1			13.5	13.0		13.5	12.2	13.1	15.1
SW	1.7	4.4	3.2	.8	.1			10.2	15.0		9.7	9.1	10.2	12.1
W	1.2	2.0	1.0	.3	.1			4.6	13.3		3.4	4.3	6.2	3.6
NW	1.7	3.4	1.0	.4	.0			6.4	11.6		4.7	6.7	8.6	5.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.1							2.1	.0		2.1	2.7	.8	2.2
TOT OBS	1703	3780	1333	267	32	7317			12.2		2191	1324	2413	1389
TOT PCT	23.3	51.7	21.0	3.6	.4			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GNT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	2.1	2.3	40.3	41.4	9.4	1.2	.2	12.2	100.0	2191
0600	2.7	5.7	38.9	42.3	8.9	1.2	.2	12.3	100.0	1924
1200	1.8	6.0	44.3	38.1	8.3	1.5	.0	11.9	100.0	2413
1800	2.2	4.3	40.4	42.3	9.4	1.1	.1	12.4	100.0	1980
TOT	197	398	3028	2977	693	91	8	12.2		7917
PCT	2.1	5.4	41.4	40.7	9.0	1.3	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	4.9	1.6	2.4	1.6		3.3
NE	10.9	5.2	3.3	2.8		3.4
E	4.3	2.8	3.3	2.3		4.1
SE	3.1	2.2	2.8	2.3		4.4
S	4.2	2.6	3.3	3.3		4.6
SW	4.8	3.8	4.6	2.0		4.0
W	1.8	1.1	1.2	.8		4.0
NW	2.1	.9	1.2	.8		3.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.2	.1		2.4
TOT OBS	690	334	427	280	1621	3.9
TOT PCT	37.0	20.6	26.3	16.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.2	.0	.1	.3	.8	1.2	.2	.1	.2	.1	7.3
NE	.7	.8	.2	.3	1.3	2.1	.9	.4	.1	.2	17.6
E	.2	.8	.1	.4	1.4	1.4	.8	.2	.0	.0	8.5
SE	.1	.0	.1	.4	1.3	1.2	.4	.2	.1	.1	6.2
S	.2	.0	.3	.3	2.9	2.6	.5	.4	.1	.0	8.1
SW	.8	.0	.1	.1	1.7	2.3	.8	.2	.0	.0	10.0
W	.9	.0	.0	.2	.3	.3	.3	.0	.0	.1	3.3
NW	.1	.0	.0	.2	.3	.3	.1	.0	.1	.0	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	1.4
TOT OBS	27	1	14	42	189	190	84	23	9	8	1074
TOT PCT	1.7	.1	.9	2.6	10.4	11.7	3.9	1.4	.6	.5	66.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM) >1	>1/2	>1/4	>30YD	>0
>8500	.9	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>7000	1.8	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>5500	4.4	6.4	6.3	6.3	6.3	6.3	6.3	6.3
>4000	12.3	16.9	18.0	18.2	18.3	18.3	18.3	18.3
>2500	18.0	23.8	27.9	28.2	28.3	28.3	28.3	28.3
>1000	19.3	28.1	30.4	30.6	31.1	31.1	31.1	31.1
>500	19.9	28.9	31.3	31.7	32.0	32.0	32.0	32.0
>150	20.0	28.9	31.3	31.7	32.1	32.1	32.1	32.1
>0	20.0	29.2	32.4	32.9	33.3	33.6	33.9	33.7
TOTAL	330	481	334	342	349	353	354	356

TOTAL NUMBER OF OBS: 1646

PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCH	TOTAL OBS
18.9	13.3	13.5	11.6	7.3	6.4	8.4	6.0	11.5	1794

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	
1/2<1	PCP	.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.1	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	
2<5	PCP	.1	.4	.7	.4	.3	.0	.0	.0	.0	.0	1.4	
	NO PCP	.2	1.1	.4	.3	.5	.5	.1	.0	.0	.0	3.1	
	TOT %	.3	1.5	.4	.6	.8	.5	.1	.0	.0	.0	4.5	
5<10	PCP	.9	.5	.9	.4	.6	.3	.2	.1	.0	.0	2.9	
	NO PCP	3.3	3.3	2.8	2.8	3.4	2.9	1.1	1.3	.0	.1	23.0	
	TOT %	3.4	3.9	3.3	3.2	3.9	3.2	1.3	1.4	.0	.1	25.9	
10+	PCP	.0	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	
	NO PCP	7.2	16.6	9.5	6.3	9.6	10.1	3.3	3.4	.0	1.1	67.3	
	TOT %	7.2	16.7	9.7	6.5	9.8	10.2	3.4	3.4	.0	1.1	68.1	
TOT OBS													2379
TOT PCT		11.2	24.2	13.7	10.6	14.8	14.2	4.9	4.9	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.1	.0	.1	.3	
1/2<1	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.1	.1	.1	.0	.0	.1	.5	
1<2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.4	
2<5	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.2	.2	.3	.2	.1	.0	.1	.0	.0	1.2	
	11-21	.2	.8	.3	.3	.3	.3	.1	.1	.0	.0	2.3	
	22+	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.7	
	TOT %	.6	1.1	.5	.6	.7	.5	.2	.2	.0	.0	4.4	
5<10	0-9	.2	.1	.1	.1	.1	.1	.0	.0	.0	.2	.8	
	4-10	1.0	1.4	.9	.7	.7	.6	.3	.4	.0	.0	6.0	
	11-21	1.4	3.1	1.6	1.3	1.3	1.0	.4	.6	.0	.0	10.9	
	22+	.2	.6	.2	.3	.3	.7	.1	.1	.0	.0	3.1	
	TOT %	2.8	5.0	2.8	2.6	3.1	2.3	.9	1.2	.0	.2	20.9	
10+	0-9	.4	.6	.5	.4	.6	.4	.2	.4	.0	1.1	4.7	
	4-10	4.4	8.3	5.3	4.3	3.3	2.4	1.3	2.4	.0	.0	32.2	
	11-21	3.8	9.0	4.2	3.1	4.8	4.3	1.1	1.1	.0	.0	31.8	
	22+	.3	.7	.4	.3	1.0	1.6	.3	.3	.0	.0	5.1	
	TOT %	8.9	18.6	10.7	8.3	9.7	8.8	3.3	4.0	.0	1.1	73.5	
TOT OBS													3889
TOT PCT		12.4	24.9	14.1	11.7	13.7	11.9	4.5	5.5	.0	1.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	0-50	50-99	100-149	150-199	200-249	250-299	300-349	350-399	400-449	450-499	500-549	550-599	600-649	650-699	700-749	750-799	800-849	850-899	900-949	950-999	TOTAL OBS
0000	3.7	.0	.0	1.8	9.5	7.4	3.2	1.1	.8	.5	28.8	71.2	379								
0600	1.8	.3	.0	1.5	10.0	8.8	3.2	.9	.3	.9	27.4	72.4	340								
1200	1.2	.0	1.6	3.5	9.6	15.1	4.1	2.2	.8	.6	38.7	61.3	309								
1800	.2	.0	.8	2.5	9.7	11.4	4.3	1.0	.2	.2	30.2	69.8	316								
TOT	27	1	13	43	169	194	66	23	9	9	336	1188	1744								
PCT	1.5	.1	.9	2.5	9.7	11.1	3.8	1.3	.5	.5	31.9	66.1	100.0								

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.4	.5	.3	9.3	22.8	70.6	1088
0600	.4	.6	.9	6.3	21.4	70.3	774
1200	.4	.6	.3	3.1	20.2	75.4	1199
1800	.1	.3	.1	3.3	14.9	77.2	887
TOT	13	20	15	175	924	2901	3948
PCT	.3	.5	.4	4.4	20.9	73.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<180 FT	<600 FT	<1000 FT	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	4.0	6.0	13.6	20.7	69.6	332
0600	1.9	2.2	13.1	21.1	69.8	313
1200	1.2	3.1	9.1	32.8	58.1	482
1800	.2	1.2	6.2	29.3	68.3	301
TOT	27	49	164	423	1059	1648
PCT	1.6	3.0	10.0	25.0	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
89/89	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
88/84	.0	.0	.1	.0	.2	.6	.4	.3	19	1.9
79/79	.0	.0	.0	.7	1.2	4.6	3.7	2.3	158	12.3
78/74	.0	.0	.2	1.6	4.6	9.6	15.2	12.3	549	43.4
69/69	.0	.0	.3	2.1	4.6	7.1	6.3	7.4	393	31.1
60/64	.0	.0	.1	1.2	2.8	2.3	1.6	1.8	127	10.0
55/59	.0	.0	.0	.1	.4	.6	.2	.2	17	1.3
50/54	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
TOTAL	0	0	9	72	172	314	390	308	1083	100.0
PCT	.0	.0	.7	5.7	15.6	24.6	30.8	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88/84	.1	.7	.2	.2	.0	.1	.0	.1	.0	.0
79/79	1.3	3.1	2.0	.6	.5	1.2	.3	1.1	.0	.1
78/74	5.8	10.3	7.8	3.3	4.6	4.2	2.4	2.6	.0	.2
69/69	2.6	3.4	4.2	4.3	6.1	6.3	2.4	1.5	.0	.4
60/64	.6	.0	.4	1.0	2.6	2.3	.8	.3	.0	.0
55/59	.1	.0	.1	.0	.0	.4	.1	.0	.0	.0
50/54	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	10.8	20.3	14.6	11.4	13.4	14.6	6.3	5.7	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	83	78	76	70	61	37	31	69.4	2157
0600	82	77	74	69	61	37	31	68.3	1212
1200	87	81	77	71	69	38	31	70.3	2350
1800	88	82	80	72	63	39	36	71.8	1349
TOT	88	81	77	70	62	38	31	70.0	7168

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.7	10.9	24.9	33.7	25.7	81	338		
0600	.0	2.8	7.8	24.3	32.1	33.3	83	263		
1200	.0	5.7	19.4	21.3	32.8	24.8	80	405		
1800	.0	11.7	16.2	28.7	24.3	16.1	76	317		
TOT	0	82	179	320	401	319	80	1301		

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1866-1976

MARCH

AREA 0012 BUENOS AIRES
34.35 52.9W

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53	57	61	65	69	73	77	81	85	TOT	N FOG	WD FOG
56	60	64	68	72	76	80	84	88				
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	11	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.4	.4	.0	21	.1	.8
7/8	.0	.0	.0	.0	.0	.3	1.0	.2	.0	33	.0	1.5
6	.0	.0	.0	.0	.0	.3	1.3	.1	.0	41	.2	1.7
5	.0	.0	.0	.0	.0	1.2	2.1	.0	.0	77	.2	3.3
4	.0	.0	.0	.0	.2	.6	2.8	.7	.0	96	.1	4.3
3	.0	.0	.2	.3	.9	2.0	.3	.0	.0	84	.1	3.7
2	.0	.1	.2	.6	2.7	3.9	.5	.0	.0	176	.2	7.9
1	.0	.0	.2	1.1	3.1	3.2	.4	.0	.0	175	.2	7.6
0	.1	.2	.8	1.7	6.9	2.7	.1	.0	.0	273	.2	12.3
-1	.0	.0	.4	1.4	7.1	1.6	.1	.0	.0	235	.2	10.3
-2	.0	.0	.3	2.8	6.4	.9	.0	.0	.0	232	.2	10.4
-3	.0	.2	.3	2.8	3.6	.3	.0	.0	.0	162	.2	7.2
-4	.0	.1	.8	4.0	2.1	.5	.0	.0	.0	164	.2	7.3
-5	.0	.1	1.0	3.3	1.6	.2	.0	.0	.0	134	.2	5.9
-6	.0	.2	1.4	1.4	.7	.1	.0	.0	.0	84	.2	3.5
-7/-8	.1	.7	2.1	1.8	.2	.0	.0	.0	.0	109	.1	4.9
-9/-10	.0	.5	1.1	.8	.2	.0	.0	.0	.0	34	.1	2.3
-11/-13	.0	.7	.9	.1	.0	.0	.0	.0	.0	24	.2	.9
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	7	63	208	492	793	439	133	26	3	2188	66	2122
PCT	.3	3.0	9.5	22.5	36.2	20.1	7.1	1.2	.1	100.0	3.0	37.0

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT PRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	3.5	.1	3.1	1.3	.0	.0	.0	6.8
3-4	.0	.0	1.7	.1	.0	.0	2.5	.0	3.1	6.4	.0	.0	.0	9.6
5-6	.0	.1	1.6	.0	.0	.0	1.7	.0	.3	4.8	.2	.0	.0	4.3
7	.0	.1	.3	.2	.0	.0	.6	.0	.0	3.4	.4	.0	.0	3.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.1	.0	.0	.4
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	4.7	.5	.0	.0	9.7	.4	9.4	16.0	.8	.0	.2	26.7

MGY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.9	.0	.0	.0	.0	1.1	.1	.3	.0	.0	.0	.0	.4
1-2	.2	2.5	1.0	.0	.0	.0	3.7	.1	1.3	.4	.0	.0	.0	1.8
3-4	.0	.7	2.9	.2	.0	.0	3.8	.0	.7	2.0	.0	.0	.0	2.7
5-6	.0	.6	1.4	.1	.0	.0	2.1	.0	.2	.9	.1	.0	.0	1.2
7	.0	.0	.9	.2	.0	.0	1.0	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.1	.3	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	6.2	.8	.0	.0	12.0	.3	2.5	3.9	.8	.1	.0	7.6

PERIOD: (OVER-ALL) 1963-1976

MARCH

AREA 0012 BUENOS AIRES
34.35 52.94

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.3	.1	.0	.0	.0	.7	.2	.2	.1	.0	.0	.0	.5
1-2	.1	1.9	.8	.0	.0	.0	2.6	.0	1.0	.7	.0	.0	.0	1.7
3-4	.1	1.8	2.0	.2	.0	.0	5.2	.0	.7	2.6	.3	.0	.0	3.6
5-6	.0	.4	2.4	.0	.0	.0	2.9	.0	.3	2.5	.4	.0	.0	3.2
7	.0	.1	1.9	.6	.0	.0	2.7	.0	.0	2.1	.9	.1	.0	3.1
8-9	.0	.0	.3	.3	.1	.0	.6	.0	.0	1.6	1.2	.0	.0	2.8
10-11	.0	.0	.3	.6	.0	.0	1.1	.0	.0	.6	1.0	.0	.0	1.6
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.2	.0	.0	.3	.0	.0	.0	.2	.1	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	6.4	2.0	.1	.1	16.7	.2	2.1	10.3	4.1	.3	.0	16.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.2	.1	.0	.0	.0	.3	.0	.2	.2	.0	.0	.0	.4	
1-2	.0	.7	.3	.0	.0	.0	1.0	.0	.8	.1	.0	.0	.0	1.0	
3-4	.0	.2	1.0	.2	.0	.0	1.3	.0	.3	.7	.1	.0	.0	1.3	
5-6	.0	.0	.4	.3	.0	.0	.6	.0	.2	.4	.2	.0	.0	.9	
7	.0	.0	.3	.0	.1	.0	.8	.0	.4	.1	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	2.3	.3	.2	.0	4.1	.1	1.7	1.7	.1	.1	.0	4.0	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.6	3.9	.6	.0	.0	.0	8.0	88
1-2	.7	16.1	5.4	.0	.0	.0	22.1	
3-4	.1	8.4	20.2	1.1	.0	.0	29.8	
5-6	.0	2.1	13.3	1.3	.0	.0	17.0	
7	.0	.2	9.6	2.3	.2	.0	12.3	
8-9	.0	.0	2.7	1.9	.1	.0	4.7	
10-11	.0	.0	1.3	1.9	.0	.0	3.6	
12	.0	.0	.3	.4	.0	.0	.8	
13-16	.0	.0	.2	.6	.2	.0	1.0	
17-19	.0	.0	.0	.1	.2	.0	.3	
20-22	.0	.0	.0	.1	.2	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	30.7	54.1	9.9	.8	.1	100.0	896

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	19.9	18.1	8.2	3.4	.8	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	671	3
6-7	.0	1.2	6.0	6.5	3.6	1.9	1.4	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	334	4
8-9	.0	.6	1.1	3.2	2.7	1.3	1.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	7
10-11	.0	.0	.4	.6	.6	.3	.1	.1	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	46	7
13-15	.0	.0	.4	.2	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
>15	.0	.0	.0	.4	.4	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	17	9
INDEX	3.2	3.2	2.9	1.6	1.3	.6	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	4
TOTAL	73	276	408	279	207	80	55	19	18	4	3	1	0	0	0	0	0	0	0	1423	5
PCT	5.1	19.4	28.7	19.6	14.9	5.6	3.9	1.3	1.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1974
(OVER-ALL) 1862-1974AREA 0012 BUENOS AIRES
34.55 59.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.9	.0	.6	.0	.0	.0	.1	1.7	.4	1.2	3.7	.2	1.5	.0	91.4
NE	.9	.3	.7	.0	.0	.0	.0	1.9	1.6	1.1	2.4	.1	2.0	.0	90.9
E	1.9	.3	1.1	.0	.0	.0	.0	2.3	1.4	.3	2.7	.0	.9	.0	91.4
SE	3.5	2.0	1.3	.0	.0	.0	.0	6.8	3.5	.0	.7	.0	.4	.0	86.6
S	3.2	1.3	1.4	.0	.0	.0	.0	6.0	2.7	.0	1.7	.3	.3	.0	89.1
SW	.5	.7	.4	.0	.0	.0	.0	1.6	2.3	.7	2.6	.0	.0	.0	93.0
W	1.5	1.4	.0	.0	.0	.0	.0	2.9	1.6	1.1	.7	.0	.7	.0	93.0
NW	1.9	.6	.4	.0	.0	.0	.2	3.1	1.2	1.3	4.6	.0	.5	.0	89.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.6	1.2	.0	.0	.0	.0	.0	1.8	3.5	.0	7.0	.0	.0	.0	87.7
TOT PCT	1.7	.8	.7	.0	.0	.0	9	3.2	2.0	.7	2.7	.1	.7	.0	90.8
TOT OBS:	3147														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
00003	2.2	.6	.3	.0	.0	.0	.0	3.1	2.2	1.7	3.0	.0	.4	.0		89.9
06009	1.1	.4	1.3	.0	.0	.0	.0	2.8	1.4	1.3	2.3	.0	.6	.0		91.3
12019	2.3	1.3	.4	.0	.0	.0	.1	4.2	1.9	.0	2.8	.1	.6	.0		90.2
18021	1.2	.6	.7	.0	.0	.0	.0	2.5	2.2	.1	2.4	.1	.8	.0		92.0
TOT PCT TOT OBS:	1.7 3225	.8	.7	.0	.0	.0	9	3.2	2.0	.7	2.7	.1	.7	.0		90.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	3.7	4.8	.8	.2	0		12.4	11.3		10.4	13.3	12.6	18.0	13.3	12.3	11.7	9.1
NE	.9	6.6	6.9	1.0	.1	0		15.1	11.7		16.8	20.0	14.4	16.6	12.0	13.9	12.6	18.0
E	.9	4.6	3.2	.4	0	0		9.1	10.4		9.7	11.3	7.2	10.8	7.8	9.1	7.9	11.3
SE	.8	3.3	4.1	.9	.2	0		11.3	11.8		11.5	13.7	9.4	11.9	10.4	12.1	10.3	12.4
S	.9	4.8	3.0	1.3	.3	0		12.7	13.4		13.5	11.9	12.2	13.0	12.9	13.1	11.2	14.0
SW	.7	3.2	6.4	4.1	.4	.2		17.8	16.6		19.1	10.6	20.9	10.7	19.3	15.2	25.3	15.7
W	.6	3.1	3.1	1.3	.4	.1		8.6	14.7		7.3	7.2	9.3	7.7	8.8	10.7	9.1	7.8
NW	.7	4.3	3.1	.7	.2	0		8.9	11.4		6.7	9.0	8.4	9.1	10.6	10.8	8.0	9.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		6.0	2.9	3.6	2.2	4.7	2.7	3.6	2.4
TOT OBS	837	3193	2918	847	174	33	7964		12.4		1427	892	983	310	1419	1185	1089	499
TOT PCT	10.5	39.6	36.4	10.6	2.2	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	12	18
N	3.3	6.3	2.1	.4	0			12.4	11.3		11.3	14.3	13.0	10.9
NE	3.4	8.4	2.9	.3	0			15.1	11.7		18.0	15.2	12.9	14.3
E	2.8	4.8	1.3	.1	0			9.1	10.4		10.4	8.3	8.4	9.0
SE	3.1	5.6	2.1	.4	.1			11.3	11.8		12.3	10.2	11.2	11.1
S	3.0	5.6	3.3	.7	.2			12.7	13.4		12.9	12.3	13.0	12.1
SW	2.7	7.1	5.7	1.9	.4			17.8	16.6		15.3	17.4	17.3	22.3
W	2.1	3.3	2.0	.8	.2			8.6	14.7		7.2	8.8	9.6	8.7
NW	2.8	4.2	1.6	.3	.1			8.9	11.4		7.6	8.6	10.7	8.4
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	4.1							4.1	.0		4.8	4.4	3.8	3.2
TOT OBS	2186	3650	1674	389	85	7964			12.4		2279	1493	2804	1388
TOT PCT	27.4	45.6	21.0	4.9	1.1			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-29	30-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000Z	4.8	6.4	37.9	38.7	9.8	1.9	.3	12.3	100.0	2279
0600Z	4.4	6.1	39.4	38.8	10.9	2.1	.3	12.4	100.0	1499
1200Z	3.8	7.2	40.1	34.8	11.0	2.7	.3	12.4	100.0	2804
1800Z	3.2	5.8	41.4	38.6	11.0	1.8	.3	12.4	100.0	1588
TOT	323	512	3153	2918	847	174	33	12.4		7964
PCT	4.1	6.4	39.6	36.6	10.6	2.2	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.3	1.8	3.3	1.4		3.2
NE	4.8	1.8	3.7	1.8		3.8
E	2.5	1.8	2.1	1.0		3.9
SE	2.1	1.8	2.7	1.6		4.6
S	4.2	2.1	3.3	1.4		3.9
SW	10.1	9.1	8.6	2.1		3.6
W	3.7	1.8	2.1	.5		2.3
NW	3.7	1.1	2.1	.9		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.7	.8	1.0	.4		2.8
TOT OBS	669	333	399	230	2031	3.6
TOT PCT	42.4	17.2	29.2	11.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	399	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.2	.6	1.8	.4	.1	.1	.1	9.7	
NE	.0	.0	.3	.5	1.0	.8	.4	.3	.2	.1	8.7	
E	.0	.0	.0	.2	.6	.9	.5	.1	.1	.0	4.7	
SE	.0	.0	.2	.4	.6	1.3	.6	.0	.0	.0	4.9	
S	.0	.0	.1	.3	1.4	1.2	.2	.2	.0	.0	7.3	
SW	.3	.0	.1	.8	1.8	4.8	1.4	.2	.0	.0	16.3	
W	.1	.0	.0	.1	.6	.7	.2	.0	.0	.1	7.8	
NW	.1	.0	.0	.0	.3	1.1	.3	.0	.0	.2	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.3	.8	.0	.0	.0	.0	3.3	
TOT OBS	14	2	11	33	132	280	84	20	12	12	1469	2031
TOT PCT	.7	.1	.5	2.7	7.4	13.7	4.1	1.0	.6	.6	68.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>5	>1/2	>1/4	>50YD	>0
>4900	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>3000	1.4	2.1	2.2	2.2	2.2	2.2	2.2	2.2
>1900	4.3	6.0	6.2	6.2	6.2	6.2	6.2	6.2
>1000	12.0	18.3	19.9	19.9	19.9	19.9	19.9	19.9
>400	16.2	23.4	27.3	27.4	27.4	27.4	27.4	27.4
>300	17.6	27.7	29.8	30.0	30.0	30.0	30.0	30.0
>150	17.7	28.1	30.3	30.3	30.6	30.6	30.6	30.6
>0	17.8	28.1	30.4	30.6	30.6	30.6	30.6	30.6
TOTAL	367	380	633	642	643	644	646	647

TOTAL NUMBER OF OBS: 2062

PCT FREQ NM <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
										OBS
29.8	12.1	13.8	8.8	7.6	6.4	9.6	7.1	8.3	.7	2263

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PERIOD: (PRIMARY) 1913-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.1	.1	.0	.1	.0	.1	.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.0	.1	.1	.1	.1	.0	.1	.0	.2	.6	
	TOT %	.1	.1	.1	.1	.1	.1	.0	.2	.0	.2	1.0	
2<5	PCP	.0	.0	.0	.1	.4	.1	.0	.0	.0	.0	.6	
	NO PCP	.7	.9	.1	.4	.5	1.7	.5	.4	.0	.2	5.4	
	TOT %	.7	1.0	.1	.5	.8	1.9	.5	.4	.0	.2	6.0	
5<10	PCP	.1	.1	.1	.4	.2	.2	.1	.0	.0	.1	1.4	
	NO PCP	3.3	3.7	2.0	2.3	3.9	7.4	2.9	2.4	.0	2.4	30.3	
	TOT %	3.4	3.8	2.1	2.7	4.1	7.5	3.1	2.5	.0	2.5	31.9	
10+	PCP	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	7.7	7.9	5.0	5.1	6.7	14.2	5.6	5.0	.0	2.5	59.8	
	TOT %	7.8	7.9	5.1	5.2	6.8	14.2	5.6	5.1	.0	2.5	60.3	
TOT OBS													3146
TOT PCT		12.4	12.8	7.4	8.7	11.8	23.8	9.3	8.3	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.1	.2	.1	.1	.1	.1	.0	.1	1.0	
2<5	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	.4	
	4-10	.2	.4	.1	.2	.3	.2	.2	.2	.0	.0	1.8	
	11-21	.2	.4	.1	.3	.3	.2	.2	.2	.0	.0	2.4	
	22+	.0	.1	.0	.2	.0	.1	.0	.0	.0	.1	1.0	
	TOT %	.7	.9	.3	.6	.6	1.4	.4	.4	.0	.2	5.6	
5<10	0-3	.2	.2	.1	.1	.2	.1	.2	.1	.0	1.8	3.0	
	4-10	1.3	1.3	1.2	1.2	1.2	1.1	.8	.8	.0	.0	9.2	
	11-21	1.3	1.3	1.0	1.2	1.6	2.1	.9	.8	.0	.0	10.3	
	22+	.2	.2	.1	.4	.7	2.4	.8	.2	.0	.0	4.6	
	TOT %	3.0	3.4	2.4	2.8	3.7	5.7	2.4	1.9	.0	1.8	27.1	
10+	0-3	.6	.4	.5	.3	.3	.4	.3	.4	.0	2.3	5.5	
	4-10	3.8	4.0	3.1	3.4	3.2	4.2	2.2	3.3	.0	.0	27.3	
	11-21	3.3	4.0	2.6	2.9	3.7	3.7	2.3	2.2	.0	.0	27.1	
	22+	.3	.2	.3	.3	.9	2.9	.7	.1	.0	.0	5.7	
	TOT %	8.2	8.7	6.4	6.8	8.1	13.2	5.8	6.2	.0	2.3	65.6	
TOT OBS													4477
TOT PCT		12.0	13.1	9.2	10.5	12.8	20.3	8.7	8.7	.0	4.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 289	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.7	2.6	5.3	7.4	1.4	.2	.5	.0	20.5	79.5	419
0600	.7	.2	.2	2.6	5.6	9.3	4.0	.7	.5	.5	24.2	75.8	490
1200	.2	.2	.5	2.2	9.6	17.5	4.0	1.4	.5	.5	36.5	63.7	628
1800	.1	.0	.6	2.7	6.8	14.5	5.2	1.0	1.0	1.1	35.0	67.0	709
TOT	15	2	11	35	154	294	85	20	14	12	492	1594	2186
PCT	.7	.1	.5	2.5	7.0	15.0	3.9	.9	.6	.5	29.8	70.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.2	.5	1.4	6.0	31.5	58.3	1202
0600	.5	.0	1.1	6.2	35.4	56.8	939
1200	.4	.8	.9	3.5	25.1	69.4	1327
1800	.3	.1	.7	3.2	20.1	75.6	1087
TOT	16	17	47	254	1244	2977	4895
PCT	.4	.4	1.0	3.6	27.3	69.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<650 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	2.7	3.5	14.2	14.8	71.0	372
0600	.8	1.3	10.8	18.5	70.8	390
1200	.2	1.0	6.4	35.0	60.6	606
1800	.1	.7	6.8	28.4	64.8	494
TOT	15	29	181	924	1357	2062
PCT	.7	1.4	8.8	25.4	65.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/84	.0	.0	.1	.3	.3	.0	.1	.0	6	.4
79/79	.0	.0	.0	.1	.1	.8	.3	.3	23	1.6
78/74	.0	.0	.0	.4	1.3	3.2	6.3	3.7	242	17.0
69/69	.0	.0	.1	2.1	3.9	8.7	12.0	9.4	516	36.3
60/64	.0	.0	.3	2.2	7.2	6.3	7.3	5.3	409	28.7
53/59	.0	.0	.0	.9	3.4	3.4	4.3	2.5	207	14.5
50/54	.0	.0	.0	.0	.1	.4	.4	.6	20	1.4
TOTAL	0	8	7	52	233	328	436	337	1423	100.0
PCT	.0	.9	.5	5.8	16.4	23.0	30.6	23.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.8	.0	.0	.0	.0	.1	.0	.0
.3	.4	.1	.1	.1	.1	.3	.2	.0	.0
3.3	6.1	2.0	1.0	.7	.8	1.2	1.5	.0	.3
6.0	5.9	4.0	3.7	3.9	3.6	4.1	3.8	.0	1.3
2.1	3.6	2.0	3.5	6.7	3.1	2.5	2.4	.0	1.0
1.0	.4	.6	1.3	3.1	4.5	2.2	1.0	.0	.6
.1	.0	.1	.1	.5	.5	.1	.0	.0	.1
12.9	16.4	8.9	9.7	14.9	14.4	10.4	9.1	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	79	75	72	68	55	52	48	64.4	2290
0600	86	79	71	64	54	50	45	65.1	1504
1200	87	77	74	66	56	52	49	69.5	2565
1800	89	78	75	66	56	53	50	66.5	1560
TOT	87	76	73	65	55	52	45	64.9	7919

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	5.0	16.5	18.5	32.4	27.7	81	401
0600	.0	5.1	15.0	20.5	35.2	28.1	81	292
1200	.0	5.5	15.0	23.5	30.6	25.5	80	412
1800	.0	5.1	20.1	29.3	26.8	14.8	76	350
TOT	0	89	238	336	449	351	79	1463

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	8	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.0	14	.1	.4
9/10	.0	.0	.0	.0	.0	.0	.4	.1	.2	.2	.0	26	.0	.8
7/8	.0	.0	.0	.0	.0	.1	.6	.3	.4	.1	.0	48	.1	1.6
6	.0	.0	.0	.0	.0	.5	.1	.1	.3	.1	.0	39	.0	1.1
5	.0	.0	.0	.0	.1	1.3	.2	.5	.4	.1	.0	83	.2	2.6
4	.0	.0	.0	.0	.2	1.9	.3	.9	.4	.0	.0	106	.1	3.5
3	.0	.0	.0	.0	.7	1.7	.9	.9	.3	.1	.0	137	.2	4.4
2	.0	.0	.0	.1	1.3	2.3	2.4	2.0	.2	.0	.0	244	.2	8.0
1	.0	.0	.0	.1	2.3	1.2	1.8	2.1	.3	.0	.0	232	.1	7.8
0	.0	.0	.0	.5	2.8	2.1	3.2	2.5	.4	.0	.0	341	.3	11.2
-1	.0	.0	.0	.6	1.7	2.1	3.0	1.6	.2	.0	.0	274	.4	8.9
-2	.0	.0	.0	1.5	1.7	3.0	3.2	.9	.0	.0	.0	308	.2	10.2
-3	.0	.0	.0	.9	1.4	1.9	1.7	.5	.0	.0	.0	192	.1	6.4
-4	.0	.0	.2	1.1	1.3	2.6	1.8	.3	.1	.0	.0	213	.1	7.1
-5	.0	.0	.2	1.0	1.3	2.3	1.0	.0	.0	.0	.0	173	.1	5.8
-6	.0	.0	.1	.6	1.0	1.7	.7	.1	.0	.0	.0	123	.1	4.0
-7/-8	.0	.0	.6	1.0	2.3	2.1	.7	.1	.0	.0	.0	199	.2	6.3
-9/-10	.0	.1	.5	.6	1.0	.6	.2	.0	.0	.0	.0	90	.1	2.9
-11/-13	.0	.1	.2	1.1	.6	.3	.1	.0	.0	.0	.0	70	.0	2.3
-14/-16	.0	.0	.4	.4	.1	.0	.0	.0	.0	.0	.0	21	.0	1.0
-17/-19	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	8	.0	.2
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	1	5	70	286	592	813	668	390	102	20	3	2954	83	2871
PCT	.0	.2	2.4	9.7	20.0	27.6	22.6	13.2	3.3	.7	.2	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1962-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	1.0	.1	.0	.0	.0	1.3	.0	.9	.3	.0	.0	.0	1.2
1-2	.2	2.6	1.1	.0	.0	.0	3.8	.1	2.0	1.0	.0	.0	.0	3.1
3-4	.0	1.4	3.0	.0	.0	.0	4.3	.0	.3	1.9	.0	.0	.0	2.2
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.1	.1	.0	.0	1.1
7	.0	.0	.3	.1	.0	.0	.3	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.9	3.6	.3	.1	.0	11.4	.1	3.2	4.3	.3	.0	.0	8.1

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.7	.0	.0	.0	.0	.8	.2	.7	.0	.0	.0	.0	.9
1-2	.1	.6	.3	.0	.0	.0	1.1	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.5	1.2	.0	.0	.0	1.7	.0	1.0	1.3	.0	.0	.0	2.3
5-6	.0	.1	.5	.2	.0	.0	.8	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	2.3	.2	.0	.0	4.3	.2	3.5	3.8	.1	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0012 BUENOS AIRES
34.35 53.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.8	.0	.0	.0	.0	.9	.4	1.0	.1	.0	.0	.0	1.5
1-2	.0	1.0	1.1	.0	.0	.0	2.1	.1	2.2	.8	.0	.0	.0	3.2
3-4	.2	.8	1.4	.1	.0	.0	2.4	.8	1.5	3.5	.1	.0	.0	5.0
5-6	.0	.1	.9	.1	.0	.0	1.1	.0	.1	3.0	.3	.0	.0	3.4
7	.0	.1	.3	.3	.0	.0	.9	.0	.4	1.8	1.6	.0	.0	3.8
8-9	.0	.0	.6	.3	.0	.0	.9	.0	.8	1.4	2.3	.1	.0	3.7
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	1.8	2.8	.2	.0	4.8
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	1.9	.0	.1	2.0
13-16	.0	.0	.3	.1	.0	.0	.4	.0	.0	.1	1.9	.3	.0	2.3
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	4.8	1.3	.0	.0	9.2	.5	3.2	12.5	10.9	.6	.1	29.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.1	.3	.0	.0	.0	.0	.8	.0	.7	.1	.0	.0	.0	.7	
1-2	.1	1.3	.7	.0	.0	.0	2.3	.0	1.9	.7	.0	.0	.0	2.6	
3-4	.0	1.1	1.7	.4	.0	.0	3.3	.0	1.3	2.3	.8	.0	.0	3.4	
5-6	.0	.1	1.4	.1	.0	.0	1.6	.0	.2	.8	.1	.0	.0	1.1	
7	.0	.0	.3	.4	.0	.0	.9	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.1	.1	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.8	.0	.0	.1	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.2	4.8	1.4	.0	.0	9.3	.5	4.0	4.0	.4	.0	.0	8.5	88.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	12.3	6.2	.6	.0	.0	.0	19.1	085
1-2	1.0	13.2	6.2	.0	.0	.0	20.3	
3-4	.4	7.8	16.4	.6	.0	.0	25.1	
5-6	.0	.9	10.0	.9	.0	.0	11.7	
7	.0	.3	4.0	2.7	.0	.0	7.0	
8-9	.0	.1	2.2	2.7	.1	.0	5.1	
10-11	.0	.0	2.1	3.3	.3	.0	5.7	
12	.0	.0	.2	2.4	.0	.1	2.7	
13-16	.0	.0	.4	2.1	.3	.0	2.7	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	28.8	42.0	14.8	.7	.1	100.0	1382

PERIOD: (OVER-ALL) 1969-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	2.2	8.9	14.2	5.0	1.8	.8	1.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	888	3
6-7	.1	1.3	6.3	6.4	4.1	2.7	1.3	.4	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	442	6
8-9	.0	.3	.6	2.0	3.0	1.3	1.3	1.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	241	8
10-11	.0	.3	.3	.3	.8	.5	.7	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	8
12-13	.0	.0	.8	.3	.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	8
13-15	.0	.0	.0	.2	.1	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
INDET	9.0	3.1	3.4	2.9	2.7	1.1	1.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	489	3
TOTAL	220	270	499	393	292	138	142	45	48	3	1	0	1	0	0	0	0	0	0	1932	5
PCT	11.3	13.8	25.6	17.1	12.9	7.1	7.3	2.3	2.3	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1857-1976AREA 0012 BUENOS AIRES
34.63 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.1	1.0	.3	.0	.0	.0	.0	4.6	.7	2.9	13.7	.0	.3	.0	78.4
NE	3.1	.8	.3	.0	.0	.0	.0	4.4	4.3	2.0	16.6	.2	.0	.0	72.9
E	5.2	3.0	.8	.0	.0	.0	.0	9.9	3.8	.8	5.2	.0	.3	.0	80.1
SE	7.4	3.8	1.4	.0	.0	.0	.0	12.3	3.6	1.3	.7	.0	.0	.0	82.4
S	5.6	.4	.4	.0	.0	.0	.0	6.4	1.5	.8	1.1	.0	.7	.0	90.0
SW	1.0	2.4	.0	.0	.0	.0	.0	3.4	2.0	.5	4.0	.0	.8	.0	89.3
W	.9	2.1	.0	.0	.0	.0	.0	1.0	1.3	1.2	10.3	.0	.4	.0	84.0
NW	2.9	.7	.0	.0	.0	.0	.0	3.6	1.2	1.4	11.1	.0	1.1	.0	81.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	.0	.0	.0	.0	.0	1.2	2.5	.0	23.0	.6	2.5	.0	70.2
TOT PCT	3.0	1.6	.4	.0	.0	.0	.0	4.9	2.3	1.4	9.9	.1	.6	.0	81.2
TOT OBS:	2929														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	4.1	2.0	.2	.0	.0	.0	.0	6.3	2.0	1.4	9.1	.0	.8	.0	80.5
0600Z	2.4	1.2	.7	.0	.0	.0	.0	4.4	2.6	3.1	8.7	.0	.0	.0	81.6
1200Z	2.8	.9	.1	.0	.0	.0	.0	3.8	1.6	.9	11.3	.0	.9	.0	82.0
1800Z	2.9	2.2	.6	.0	.0	.0	.0	5.8	2.7	.5	9.6	.3	.5	.0	80.8
TOT PCT TOT OBS:	3.0 2993	1.6	.4	.0	.0	.0	.0	5.0	2.1	1.4	9.8	.1	.6	.0	81.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.1	7.4	4.3	.6	.1	.0		13.7	10.2	12.3	13.6	14.3	17.0	14.6	14.0	12.3	12.2
NE	.9	7.3	5.4	.6	.1	.0		14.3	10.9	13.5	14.7	15.2	12.9	14.2	12.1	10.2	15.4
E	.8	4.4	2.7	.9	.1	.1		9.0	11.6	9.8	10.9	8.4	9.9	8.0	8.7	7.8	10.0
SE	.7	4.3	3.0	1.2	.1	.1		9.3	12.2	10.4	10.2	8.6	8.3	8.4	9.7	9.1	9.2
S	.7	4.1	4.5	1.4	.3	.1		11.1	13.8	11.9	12.2	10.4	10.0	10.4	10.8	11.0	12.8
SW	.7	4.4	6.2	3.1	.7	.2		13.4	16.2	13.6	12.6	18.3	14.2	13.3	14.5	16.4	15.6
W	.8	4.2	4.3	1.5	.7	.3		11.6	15.2	10.3	11.9	9.3	11.6	11.8	13.6	12.6	11.7
NW	.7	3.4	3.7	1.1	.2	.0		11.2	11.9	9.2	11.3	10.1	13.2	12.3	14.0	9.4	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0	4.9	2.7	3.8	2.8	4.6	2.7	3.3	3.3
TOT OBS	833	3299	2709	826	171	62	7900		12.3	1413	940	938	528	1446	1182	964	490
TOT PCT	10.5	41.8	34.3	10.3	2.2	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WHD DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	4.3	7.4	1.8	.1	.0		13.7	10.2	12.8	15.3	14.3	12.3		
NE	3.8	8.3	2.3	.2	.1		14.5	10.9	15.7	14.4	13.3	15.9		
E	2.8	4.1	1.7	.3	.1		9.0	11.6	10.2	8.9	8.3	8.3		
SE	2.5	4.5	1.9	.4	.1		9.3	12.2	10.3	8.5	9.0	9.1		
S	2.5	4.7	3.1	.5	.3		11.1	13.8	12.0	10.3	10.4	11.6		
SW	2.6	3.8	5.1	1.3	.5		13.4	16.2	14.4	16.9	15.0	16.1		
W	2.6	3.0	2.5	1.0	.3		11.6	15.2	11.0	10.3	12.6	12.3		
NW	3.0	3.5	2.3	.3	.1		11.2	11.9	10.0	11.2	13.2	9.5		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	4.1						4.1	.0	.0	4.2	3.8	4.6		
TOT OBS	2223	3578	1643	126	130	7900		12.3	2355	1463	2628	1454		
TOT PCT	28.1	45.3	20.8	4.1	1.6		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1897-1976

MAY

AREA 0012 BUENOS AIRES
34.65 52.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.0	7.1	41.1	34.1	10.5	2.2	.9	12.4	100.0	2389
0400Z	4.2	5.9	41.6	34.9	10.8	1.8	.8	12.3	100.0	1463
1201Z	3.8	6.4	41.9	33.8	11.0	2.5	.7	12.4	100.0	2628
1802Z	4.6	6.0	42.7	34.9	9.1	1.9	.8	11.9	100.0	1454
TOT	383	310	3299	2709	826	171	62	12.3		7900
PCT	4.1	6.5	41.8	34.3	10.5	2.2	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS/CD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION										TOTAL OBS
							000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	
N	4.8	2.1	3.3	4.2		4.5	1.8	.1	.0	.0	1.0	2.0	.5	.2	.2	.0	8.6
NE	4.1	1.9	4.9	6.0		3.2	2.6	.1	.0	.3	1.9	3.4	.8	.1	.2	.0	7.8
E	1.7	1.9	1.9	2.0		4.7	.7	.0	.2	.1	1.1	.3	.6	.0	.1	.1	3.9
SE	1.8	1.0	1.6	1.1		4.4	.1	.0	.0	.3	.4	.4	.7	.3	.0	.0	3.7
S	2.7	1.8	3.0	1.3		4.2	.1	.0	.2	.4	.3	1.4	.3	.2	.2	.0	5.7
SW	6.6	4.7	4.3	3.1		3.9	.7	.0	.3	.8	1.6	1.8	.6	.2	.1	.0	13.1
W	4.3	1.7	3.3	2.0		4.0	.6	.0	.1	.6	1.0	1.3	.2	.1	.2	.0	7.2
NW	3.1	1.1	2.1	2.3		3.5	.6	.0	.0	.2	.9	1.1	.1	.1	.0	.1	7.5
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.6	.6	2.4		4.0	1.7	.0	.0	.1	.4	.4	.0	.0	.1	.1	3.4
TOT OBS	331	289	397	383	1376	4.3	138	4	12	39	132	197	51	10	11	4	984
TOT PCT	33.8	16.5	25.3	24.4	100.0		9.8	.3	.8	2.3	8.4	12.3	3.8	1.1	1.0	.3	60.8

TABLE 6

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS/CD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NM >4/8) AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION										TOTAL OBS
							000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	
N	4.8	2.1	3.3	4.2		4.5	1.8	.1	.0	.0	1.0	2.0	.5	.2	.2	.0	8.6
NE	4.1	1.9	4.9	6.0		3.2	2.6	.1	.0	.3	1.9	3.4	.8	.1	.2	.0	7.8
E	1.7	1.9	1.9	2.0		4.7	.7	.0	.2	.1	1.1	.3	.6	.0	.1	.1	3.9
SE	1.8	1.0	1.6	1.1		4.4	.1	.0	.0	.3	.4	.4	.7	.3	.0	.0	3.7
S	2.7	1.8	3.0	1.3		4.2	.1	.0	.2	.4	.3	1.4	.3	.2	.2	.0	5.7
SW	6.6	4.7	4.3	3.1		3.9	.7	.0	.3	.8	1.6	1.8	.6	.2	.1	.0	13.1
W	4.3	1.7	3.3	2.0		4.0	.6	.0	.1	.6	1.0	1.3	.2	.1	.2	.0	7.2
NW	3.1	1.1	2.1	2.3		3.5	.6	.0	.0	.2	.9	1.1	.1	.1	.0	.1	7.5
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	.6	.6	2.4		4.0	1.7	.0	.0	.1	.4	.4	.0	.0	.1	.1	3.4
TOT OBS	331	289	397	383	1376	4.3	138	4	12	39	132	197	51	10	11	4	984
TOT PCT	33.8	16.5	25.3	24.4	100.0		9.8	.3	.8	2.3	8.4	12.3	3.8	1.1	1.0	.3	60.8

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	• OR >10	• OR >8	• OR >6	• OR >4	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >9900	.8	1.2	1.3	1.3	1.3	1.3	1.3	1.3
• OR >5000	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
• OR >3500	3.6	5.5	5.7	5.8	5.8	5.8	5.9	5.9
• OR >2000	6.4	16.1	17.9	18.0	18.1	18.1	18.2	18.2
• OR >1000	13.1	23.4	26.2	26.4	26.5	26.6	26.7	26.7
• OR >400	14.3	25.3	28.6	28.8	29.0	29.1	29.1	29.1
• OR >300	14.7	26.0	29.4	29.6	29.8	29.8	29.9	29.9
• OR >150	14.9	26.1	29.6	29.8	30.0	30.1	30.2	30.2
• OR > 0	14.9	26.4	30.3	30.9	31.3	32.8	37.0	38.5
TOTAL	233	414	478	484	494	514	580	604

TOTAL NUMBER OF OBS: 1968

PCT FREQ NM <5/8: 61.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS/CD	TOTAL OBS
22.4	9.9	11.6	6.8	6.8	5.5	7.1	6.9	11.3	7.7	1773

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1857-1976

MAY

AREA 0012 BUENOS AIRES
34.6S 52.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.	.	.	.7	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.9	1.3	.3	.	.1	.2	.4	.4	.0	1.3	5.2		
	TOT %	1.0	1.3	.3	.	.1	.2	.4	.4	.0	1.3	5.3		
1/2<1	PCP	.	.0	.	.	.1	.0	.0	.1	.0	.	.3		
	NO PCP	.1	.1	.	.0	.0	.0	.	.1	.0	.1	.3		
	TOT %	.2	.1	.1	.	.1	.0	.	.1	.0	.2	.6		
1<2	PCP	.	.	.	.	.0	.1	.	.	.0	.0	.3	
	NO PCP	.1	.1	.1	.0	.0	.	.1	.1	.0	.	.6		
	TOT %	.2	.1	.1	.	.0	.1	.1	.1	.0	.	.9		
2<5	PCP	.1	.2	.4	.2	.4	.2	.0	.	.0	.0	1.6		
	NO PCP	.6	1.7	.3	.1	.2	1.2	.8	.6	.0	.3	5.9		
	TOT %	.8	1.9	.8	.4	.6	1.4	.8	.6	.0	.3	7.5		
5<10	PCP	.4	.3	.3	.4	.1	.2	.2	.3	.0	.	2.2		
	NO PCP	6.4	9.3	3.1	1.8	2.8	5.4	2.1	4.2	.0	3.0	33.1		
	TOT %	6.8	9.6	3.3	2.2	2.9	5.6	2.4	4.4	.0	3.1	37.3		
10+	PCP	.1	.1	.	.1	.1	.1	.	.0	.0	.0	.3		
	NO PCP	6.3	6.6	3.7	3.1	3.3	9.7	6.4	5.1	.0	1.3	47.8		
	TOT %	6.4	6.7	3.8	3.2	3.4	9.8	6.5	5.1	.0	1.3	48.3		
TOT OBS														2319
TOT PCT														15.3 17.0 6.4 5.8 9.0 17.2 10.2 10.8 .0 4.4 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.1	.1	.0	.	.	.	.1	.0	.9	1.2	
	4-10	.8	.7	.1	.	.	.1	.2	.2	.0	.	2.0		
	11-21	.1	.3	.1	.0	.0	.1	.1	.	.0	.	.6		
	22+	.	.0	.0	.0	.0	.0	.0	.0	.0	.	.		
	TOT %	.7	1.1	.2	.	.1	.2	.3	.3	.0	.9	3.8		
1/2<1	0-3	.0	.0	.	.0	.0	.	.	.0	.0	.1	.2		
	4-10	.1	.1	.	.0	.0	.0	.0	.1	.0	.	.3		
	11-21	.	.	.	.	.	.0	.0	.	.0	.	.1	
	22+	.0	.	.	.0	.0	.	.	.0	.0	.	.1		
	TOT %	.2	.1	.1	.	.	.	.1	.1	.0	.1	.7	
1<2	0-3	.1	.0	.0	.0	.0	.	.0	.0	.0	.	.1		
	4-10	.	.1	.1	.	.	.	.1	.1	.0	.	.4	
	11-21	.	.1	.0	.1	.	.	.	.	.0	.	.3	
	22+	.	.	.	.	.	.	.	.	.0	.	.2	
	TOT %	.2	.2	.1	.2	.1	.1	.1	.1	.0	.	1.1		
2<5	0-3	.	.1	.	.0	.	.	.1	.1	.0	.2	.6		
	4-10	.4	.6	.2	.2	.2	.3	.4	.3	.0	.	2.6		
	11-21	.2	.6	.4	.1	.2	.4	.2	.2	.0	.	2.4		
	22+	.	.1	.	.1	.1	.5	.1	.0	.0	.	.9		
	TOT %	.7	1.4	.7	.4	.7	1.2	.8	.8	.0	.2	6.5		
5<10	0-3	.4	.1	.1	.1	.2	.3	.1	.1	.0	2.2	3.7		
	4-10	2.9	2.7	1.4	.9	1.1	1.1	.9	2.1	.0	.	13.0		
	11-21	1.8	1.8	.8	.4	.9	2.0	.7	1.0	.0	.	9.4		
	22+	.2	.2	.1	.2	.4	1.1	.4	.5	.0	.	3.1		
	TOT %	5.2	4.8	2.4	1.7	2.6	4.3	2.1	3.8	.0	2.2	29.2		
10+	0-3	.3	.3	.5	.3	.2	.3	.3	.2	.0	1.7	4.6		
	4-10	4.7	4.6	3.0	3.1	2.8	2.8	2.9	3.3	.0	.	26.8		
	11-21	3.1	3.3	1.4	1.4	3.0	4.6	3.0	2.5	.0	.	22.2		
	22+	.3	.2	.1	.1	.8	2.0	1.1	.6	.0	.	5.2		
	TOT %	8.6	8.4	5.0	4.9	6.8	9.7	7.1	6.6	.0	1.7	59.8		
TOT OBS														3900
TOT PCT														15.3 16.1 8.4 7.1 10.3 15.7 10.3 11.3 .0 5.2 100.0

MAY

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1957-1976AREA 0012 BUENOS AIRES
34.65 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	400	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	14.9	2.9	3.9	2.2	6.1	7.7	1.6	1.6	.3	.0	32.3	67.7	313
0600Z	9.8	.3	.3	2.6	6.0	6.6	4.0	.3	.3	.9	31.0	69.0	348
1201Z	7.6	.4	.7	2.2	8.5	16.4	2.8	1.1	1.1	.0	40.7	59.3	343
1802Z	5.3	.0	.8	2.2	9.5	12.5	4.3	1.2	1.6	.2	37.5	62.5	306
TOT	198	4	12	39	134	199	36	18	16	4	620	1090	1710
PCT	8.1	.2	.7	2.3	7.8	11.6	3.3	1.1	.9	.2	26.3	63.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	3.1	.5	1.3	7.5	33.1	54.5	1091
0600Z	4.0	.4	1.1	7.6	33.2	53.7	825
1201Z	4.7	.8	.9	5.3	26.9	61.4	1186
1802Z	3.6	1.0	.8	5.3	24.9	64.3	863
TOT	154	26	41	254	1169	2321	3963
PCT	3.9	.7	1.0	6.4	29.5	58.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	12.5	14.4	23.6	18.1	58.3	271
0600Z	10.7	12.1	19.3	17.9	62.3	307
1201Z	7.8	10.1	17.3	27.4	55.3	503
1802Z	5.1	7.6	15.6	25.7	58.7	487
TOT	131	164	267	367	914	1368
PCT	8.4	10.3	18.3	23.4	58.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
79/79	.0	.0	.0	.0	.0	.2	.0	.0	2	.2
70/74	.1	.0	.0	.1	.2	.6	1.5	1.4	45	3.8
69/69	.0	.0	.1	.2	.9	3.0	7.3	7.8	227	19.2
60/64	.0	.0	.3	1.9	4.4	7.4	12.4	13.3	468	39.6
59/59	.0	.0	.0	.9	4.2	7.9	7.3	7.4	329	27.8
50/54	.0	.0	.0	.3	2.1	1.7	2.7	1.7	100	8.3
49/49	.0	.0	.0	.0	.1	.2	.3	.4	12	1.0
TOTAL	1	0	4	39	141	267	373	378	1483	100.0
PCT	.1	.0	.3	3.3	11.9	20.9	31.3	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
79/79	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
70/74	.8	1.2	.1	.3	.3	.1	.1	.9	.0	.0
69/69	3.7	5.3	1.9	1.4	.9	1.6	2.0	2.4	.0	.0
60/64	4.9	6.6	4.9	4.3	4.4	4.3	3.0	3.1	.0	1.9
59/59	3.3	2.4	1.1	1.9	4.3	3.8	4.3	3.6	.0	.8
50/54	.4	.4	.4	.4	1.8	2.7	1.6	.7	.0	.2
49/49	.1	.0	.0	.1	.2	.3	.1	.1	.0	.0
TOTAL	13.2	16.1	8.4	8.3	12.1	13.0	11.2	12.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	79	70	68	61	51	48	45	60.1	2335
0600Z	74	70	67	60	50	47	43	59.3	1477
1201Z	80	72	69	61	52	48	42	60.9	2374
1802Z	81	73	71	62	53	49	43	61.9	1419
TOT	81	72	69	61	51	48	42	60.3	7803

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	2.7	11.3	19.4	29.1	37.3	83	330		330
0600Z	.0	.8	10.7	20.6	33.3	34.6	84	243		243
1201Z	.0	4.0	10.3	21.3	29.8	34.1	82	372		372
1802Z	.4	6.4	14.3	21.6	33.7	21.6	79	283		283
TOT	1	41	144	233	389	395	82	1228		1228

PERIOD: (PRIMARY) 1911-1974
(OVER-ALL) 1857-1974

NAV

TABLE 17

AREA 0012 BUENOS AIRES
34.65 52.8W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	9	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	12	.0	.5
7/8	.0	.0	.0	.0	.1	.3	.3	.0	.0	.0	.0	38	.3	1.3
6	.0	.0	.0	.0	.3	.3	.2	.2	.0	.0	.0	25	.2	.9
5	.0	.0	.0	.2	.7	2.0	.3	.3	.0	.0	.0	85	.7	2.9
4	.0	.0	.0	.4	1.4	3.3	.4	.3	.0	.0	.0	145	1.3	4.8
3	.0	.0	.0	.6	1.6	2.1	.9	.4	.0	.0	.0	137	.7	5.0
2	.0	.0	.0	.9	2.9	5.3	1.8	.4	.0	.0	.0	277	1.9	9.7
1	.0	.0	.2	1.0	3.0	2.6	2.1	.6	.0	.0	.0	228	1.0	8.5
0	.0	.0	.3	2.2	3.6	3.9	2.2	.2	.0	.0	.0	346	2.3	12.2
-1	.0	.0	.3	1.1	2.6	2.0	1.3	.1	.0	.0	.0	187	.4	7.2
-2	.0	.0	.3	3.1	2.9	2.5	.8	.1	.0	.0	.0	238	.7	9.2
-3	.0	.0	.8	1.6	1.3	1.3	.6	.0	.0	.0	.0	146	.1	6.0
-4	.0	.0	.6	1.3	1.6	1.4	.3	.0	.0	.0	.0	129	.1	5.2
-5	.0	.0	.8	1.3	1.9	1.0	.3	.0	.0	.0	.0	131	.1	5.4
-6	.0	.0	.8	.9	.9	.4	.0	.0	.0	.0	.0	71	.2	2.8
-7/-8	.0	.2	1.0	.8	.8	.8	.2	.0	.0	.0	.0	88	.1	3.6
-9/-10	.0	.3	.7	.3	.3	.3	.0	.0	.0	.0	.0	37	.0	2.3
-11/-13	.3	.2	.2	.4	.3	.1	.0	.0	.0	.0	.0	33	.1	1.3
-14/-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	.3
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.1
TOTAL	7	28	156	393	690	717	302	83	10	2	1	2391	246	2143
PCT	.3	1.2	6.3	16.5	28.9	30.0	12.6	3.5	.4	.1	.0	100.0	10.3	89.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.8	.0	.0	.0	.0	2.2	41	.1	1.0	.0	.0	.0	.0	1.1
1-2	.1	3.6	.4	.0	.0	.0	4.0	1-2	.1	4.0	.3	.0	.0	.0	4.6
3-4	.0	1.6	.1	.0	.0	.0	4.7	3-4	.1	2.0	2.2	.1	.0	.0	4.4
5-6	.0	.7	2.7	.1	.0	.0	3.4	5-6	.0	1.0	2.0	.0	.0	.0	3.0
7	.0	.0	.7	.2	.0	.0	.8	7	.0	.1	.9	.1	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1	8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.6	4.8	.3	.0	.0	13.3	TOT PCT	.3	8.1	3.8	.2	.1	.0	14.3

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.3	.0	.0	.0	.0	.4	41	.1	.3	.0	.0	.0	.0	.4
1-2	.2	1.0	.3	.0	.0	.0	1.3	1-2	.0	.8	.1	.0	.0	.0	.9
3-4	.0	1.1	.6	.0	.0	.0	1.6	3-4	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.4	1.0	.0	.0	.0	1.3	5-6	.0	.3	.6	.0	.0	.0	.9
7	.0	.0	.2	.1	.0	.0	.3	7	.0	.0	.0	.0	.0	.0	.1
8-9	.0	.2	.2	.1	.0	.0	.3	8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.0	2.3	.2	.0	.0	3.7	TOT PCT	.1	1.8	1.1	.2	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1976

MAY

AREA 0012 BUENOS AIRES
34.65 52.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.1	.7	.0	.0	.0	.0	.8	.4	.9	.0	.0	.0	.0	1.3	
1-2	.0	1.2	.2	.0	.0	.0	1.4	.0	1.4	.8	.0	.0	.0	2.4	
3-4	.0	.9	.7	.0	.0	.0	1.6	.0	1.1	1.9	.1	.0	.0	3.1	
5-6	.0	.3	1.0	.1	.0	.0	1.4	.0	.4	2.7	.6	.1	.0	3.8	
7	.0	.2	.3	.1	.0	.0	.5	.0	.0	2.4	1.0	.0	.0	3.4	
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	1.3	1.0	.0	.0	2.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.3	.1	.0	2.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.3	2.4	.3	.0	.0	6.2	.4	4.0	9.7	6.1	.2	.0	20.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.1	.9	.0	.0	.0	.0	1.0	.2	.6	.0	.0	.0	.0	.8	
1-2	.2	1.7	.3	.0	.0	.0	2.1	.0	2.4	.6	.0	.0	.0	3.0	
3-4	.0	1.4	2.0	.2	.0	.0	3.6	.0	1.2	2.6	.1	.0	.0	3.9	
5-6	.0	.4	1.8	.1	.0	.0	2.3	.0	.2	1.3	.5	.0	.0	2.2	
7	.0	.0	.7	.1	.0	.0	.8	.0	.0	.5	.2	.0	.0	.7	
8-9	.0	.1	.2	.2	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.3	3.0	.7	.0	.0	10.5	.2	4.4	3.3	.8	.0	.0	10.7	0.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	14.9	6.5	.0	.0	.0	.0	21.3	0.0
1-2	.5	16.2	3.2	.0	.0	.0	20.1	0.0
3-4	.2	9.7	13.3	.5	.0	.0	23.8	0.0
5-6	.1	3.7	13.2	1.3	.1	.0	18.3	0.0
7	.0	.3	3.6	1.8	.0	.0	7.6	0.0
8-9	.0	.3	2.3	1.3	.0	.0	4.1	0.0
10-11	.0	.0	.4	2.4	.1	.0	2.9	0.0
12	.0	.0	.3	.7	.0	.0	1.0	0.0
13-16	.0	.0	.0	.3	.1	.0	.4	0.0
17-19	.0	.0	.0	.2	.0	.0	.2	0.0
20-22	.0	.0	.0	.0	.0	.0	.0	0.0
23-25	.0	.0	.0	.0	.0	.0	.0	0.0
26-32	.0	.0	.0	.0	.0	.0	.0	0.0
33-40	.0	.0	.0	.0	.0	.0	.0	0.0
41-48	.0	.0	.0	.0	.0	.0	.0	0.0
49-60	.0	.0	.0	.0	.0	.0	.0	0.0
61-70	.0	.0	.0	.0	.0	.0	.0	0.0
71-86	.0	.0	.0	.0	.0	.0	.0	0.0
87+	.0	.0	.0	.0	.0	.0	.0	0.0
TOT PCT	15.8	36.9	38.4	8.8	.3	.0	100.0	1072

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	8.1	13.4	7.2	1.4	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	498	3
6-7	.1	1.5	5.3	7.6	3.9	1.3	1.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	5
8-9	.0	.1	1.2	1.4	2.0	1.4	2.0	1.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	140	8
10-11	.0	.1	.6	.6	.8	.7	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	7
12-13	.0	.0	.1	.3	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
13-14	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
IND01	10.1	5.3	5.7	3.4	2.7	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	433	3
TOTAL	163	224	386	334	188	72	39	25	12	3	2	0	0	0	0	0	0	0	0	1468	4
PCT	11.1	15.3	26.3	22.8	12.8	4.9	4.0	1.7	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO. SIG
	RAIN	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO. SIG	
N	2.6	1.3	1.2	.0	.0	.0	.0	5.0	4.0	2.2	10.7	.5	.5	.5	76.7	
NE	4.4	3.8	1.0	.0	.0	.0	.0	9.2	5.5	1.2	10.7	1.2	.4	.0	71.9	
E	9.1	6.6	.6	.0	.0	.0	.0	16.3	14.1	.5	3.9	1.3	.3	.0	62.6	
SE	6.8	4.2	1.1	.0	.0	.0	.0	12.1	5.1	1.1	4.6	.5	.9	.0	76.4	
S	2.9	1.4	1.0	.0	.0	.0	.4	5.7	3.7	1.1	4.9	1.3	.0	.0	83.8	
SW	2.9	2.0	1.2	.0	.0	.0	.3	6.6	2.5	.7	5.3	.3	.1	.0	84.6	
W	2.9	1.8	.4	.0	.0	.0	.1	5.3	4.4	1.4	2.6	.0	.9	.0	85.3	
NW	3.7	2.3	2.6	.0	.0	.0	.0	8.6	3.1	.8	7.3	.0	.2	.0	80.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	9.9	.0	.0	.0	.0	.0	7.4	9.6	.0	8.8	1.5	.7	.0	72.1	
TOT PCT	3.8	2.8	1.0	.0	.0	.0	.2	7.7	5.0	1.1	6.2	.6	.4	.0	79.1	
TOT OBS:	2175															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO. SIG
	RAIN	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO. SIG	
0000	4.1	2.2	1.3	.0	.0	.0	.2	7.8	4.4	1.9	5.4	.4	.2	.0	60.0	
0600	3.3	3.3	.0	.0	.0	.0	.0	6.6	6.8	2.6	6.1	.4	.2	.0	77.2	
1200	3.8	3.6	.9	.0	.0	.0	.2	8.4	4.5	.0	5.7	.9	.8	.0	79.7	
1800	3.6	2.1	1.8	.0	.0	.0	.4	7.8	4.3	.4	7.1	.5	.5	.2	79.3	
TOT PCT	3.7	2.8	1.0	.0	.0	.0	.2	7.7	5.0	1.1	6.1	.6	.5	.0	79.2	
TOT OBS:	2221															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	6.1	3.8	1.1	.1	.0		12.0	11.4		9.6	12.3	10.8	14.9	13.0	14.3	10.9	11.0
NE	.9	5.1	4.0	.7	.0	.0		10.7	11.0		11.4	12.2	11.7	9.1	9.8	8.7	11.2	12.3
E	.9	3.2	3.3	.5	.1	.0		8.7	11.4		6.9	7.2	5.0	5.7	6.6	7.1	6.0	9.9
SE	.6	4.2	2.5	.5	.1	.0		8.0	10.9		8.4	8.4	7.0	9.3	7.5	7.7	7.8	9.1
S	.7	3.4	3.7	1.1	.2	.1		11.2	12.3		11.4	11.6	11.2	10.1	10.7	11.5	11.7	10.6
SW	.8	6.1	7.7	3.6	.8	.2		19.2	15.7		7.4	16.6	18.6	17.8	18.6	18.8	23.5	17.1
W	.8	4.3	5.4	3.7	1.7	.4		18.3	18.7		18.2	14.9	18.9	18.0	17.3	15.0	14.5	16.7
NW	.9	5.0	3.9	1.5	.5	.0		11.8	13.3		9.9	13.5	10.9	13.5	12.5	13.6	10.1	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		5.9	3.4	5.7	3.8	3.8	2.9	4.2	2.7
TOT OBS	763	3971	2514	989	269	56	7532		13.2		1298	920	884	479	1358	1210	934	479
TOT PCT	10.1	39.4	33.6	12.7	3.6	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-6	7-16	17-27	28-40	41+						00	03	06	09	12	15	18	21
N	3.3	6.0	2.2	.5	.0			12.0	11.4		10.7	12.3	13.6	10.9				
NE	2.9	5.8	1.8	.2	.0			10.7	11.0		11.7	10.8	9.3	11.7				
E	2.0	3.4	1.1	.2	.0			8.7	11.4		7.0	5.3	6.8	7.2				
SE	2.5	4.1	1.1	.2	.1			8.0	10.9		8.4	7.8	7.6	8.2				
S	3.0	5.4	2.1	.5	.1			11.2	12.3		11.5	10.8	11.1	11.4				
SW	3.0	8.3	5.8	1.8	.3			19.2	15.7		18.8	18.3	18.8	21.4				
W	2.4	5.6	4.6	2.8	.9			18.3	18.7		15.6	17.9	16.6	15.3				
NW	2.8	5.5	2.4	.9	.2			11.8	13.3		11.4	11.7	13.0	10.3				
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0				
CALM	4.1							4.1	.0		4.8	5.0	3.2	3.7				
TOT OBS	1952	3319	1597	538	126	7532			13.2		2218	1333	2368	1433				
TOT PCT	26.9	44.1	21.2	7.1	1.7			100.0			100.0	100.0	100.0	100.0	100.0			

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PERIOD: (PRIMARY) 1911-1975
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	4.8	6.8	39.2	32.9	12.2	3.3	.7	12.9	100.0	2218
04009	5.0	5.8	38.0	33.7	13.7	3.3	.5	13.1	100.0	1332
12615	3.2	5.3	40.7	32.9	12.8	4.1	1.0	13.5	100.0	2548
18221	3.7	6.4	38.9	34.7	12.5	3.3	.5	13.1	100.0	1419
TOT	307	456	2971	2914	959	269	56	13.2		7332
PCT	4.1	6.1	39.4	33.4	12.7	3.6	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIRECTION					MEAN
WIND DIR	0-2	3-4	5-7	8-9	CLOUD COVER
				TOTAL OBS	
N	2.1	1.2	2.4	3.3	5.2
NE	2.3	1.9	3.4	5.5	5.6
E	1.4	.6	.9	3.8	5.8
SE	1.3	.4	2.1	3.0	5.6
S	2.9	1.9	2.9	3.6	4.8
SW	4.7	4.8	6.0	6.3	4.9
W	6.6	1.4	6.3	3.0	4.1
NW	2.6	.7	1.6	1.9	4.2
VAR	.0	.0	.0	.0	.0
CALM	2.0	.6	1.8	2.2	4.8
TOT OBS	329	170	345	412	4.9
TOT PCT	36.2	13.8	27.5	32.8	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.9	.1	.0	.5	1.0	.7	.5	.1	.0	.2	5.2	
1.3	.1	.1	.7	2.7	1.3	.2	.3	.2	.1	6.3	
.6	.0	.4	.2	1.0	1.2	.4	.0	.0	.0	2.8	
.3	.0	.3	.4	2.0	.9	.2	.1	.0	.1	3.0	
.4	.0	.1	.8	2.3	1.5	.2	.1	.1	.1	5.8	
1.3	.0	.2	1.0	4.3	2.8	.9	.2	.0	.0	10.9	
.4	.0	.1	.7	2.6	3.2	1.0	.0	.1	.0	9.3	
.3	.0	.0	.3	.8	.7	.3	.1	.0	.0	4.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.8	.0	.0	.3	.8	1.0	.3	.0	.0	.0	3.5	
79	2	15	62	221	163	49	9	5	5	644	
6.3	.2	1.2	4.9	17.6	13.1	3.9	.7	.4	.4	51.3	1236

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1	>0
>5500	.7	.8	.8	.8	.8	.8	.8	.8
>5000	1.3	1.6	1.7	1.7	1.7	1.7	1.7	1.7
>4500	3.4	5.4	5.6	5.7	5.7	5.7	5.7	5.7
>4000	9.6	16.0	18.1	18.4	18.5	18.5	18.5	18.5
>3500	16.6	26.9	34.2	35.3	35.7	36.0	36.1	36.1
>3000	18.9	32.7	38.7	40.3	40.6	40.9	41.0	41.0
>2500	19.0	35.4	39.7	41.4	41.8	42.1	42.2	42.2
>2000	19.2	38.3	39.9	41.5	41.9	42.2	42.4	42.4
>1500	19.4	34.4	42.2	44.2	44.8	45.0	45.4	45.4
TOTAL	245	434	532	556	566	581	611	611

TOTAL NUMBER OF OBS: 1262

PCT FREQ NM <5/8: 31.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
19.5	9.0	9.8	7.2	7.0	6.1	9.3	6.9	20.1	5.1	1490

PERIOD: (PRIMARY) 1911-1975
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34.4S 52.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.1	*	.1	.0	.0	.0	.0	.0	*	.3	
	NO PCP	.6	.6	.1	.1	.3	.3	.1	.4	.0	.4	3.0	
	TOT %	.7	.7	.1	.2	.3	.3	.1	.4	.0	.5	3.2	
1/2<1	PCP	.0	.1	*	.1	.0	*	.0	.0	.0	.0	.3	
	NO PCP	*	*	.0	.0	.1	.2	*	.0	.0	*	.4	
	TOT %	*	.2	*	.1	.1	.2	*	.0	.0	*	.7	
1<2	PCP	*	.3	.1	*	*	.1	.0	.1	.0	.0	.7	
	NO PCP	.2	.2	.4	.1	.0	.3	.3	.1	.0	.1	1.7	
	TOT %	.3	.5	.5	.2	*	.3	.3	.2	.0	.1	2.4	
2<5	PCP	.1	.1	.6	.2	.1	.4	.2	.2	.0	.3	2.2	
	NO PCP	.4	1.1	.7	.5	.6	1.1	.8	.0	.0	.4	5.6	
	TOT %	.5	1.3	1.3	.7	.6	1.5	1.1	.2	.0	.7	7.8	
5<10	PCP	.3	.4	.3	.4	.5	.5	.3	.3	.0	.1	3.3	
	NO PCP	3.4	3.0	2.3	2.4	2.7	6.4	6.0	1.9	.0	1.8	30.0	
	TOT %	3.7	3.4	2.6	2.8	3.1	7.0	6.3	2.2	.0	1.9	33.3	
10+	PCP	*	.1	.1	*	*	.4	.2	.1	.0	.0	1.0	
	NO PCP	4.6	3.7	2.7	3.4	6.6	11.2	10.3	4.1	.0	3.0	51.6	
	TOT %	4.7	3.8	2.7	3.5	6.6	11.5	10.5	4.2	.0	3.0	52.6	
TOT OBS													2163
TOT PCT													9.9 11.8 7.3 7.5 10.8 20.9 18.3 7.1 .0 6.2 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	*	.1	*	*	.0	*	.6	
	4-10	.4	.2	.1	.1	.2	.2	.1	.2	.0	.0	1.3	
	11-21	.1	.4	*	.1	.0	*	.0	.1	.0	.0	.7	
	22+	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.1	
	TOT %	.6	.6	.1	.2	.2	.4	.1	.3	.0	.3	2.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1	
	4-10	*	*	*	.0	.1	.1	.0	.0	.0	.0	.3	
	11-21	.0	.1	*	.1	.0	*	*	*	.0	.0	.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	.1	.1	.1	.1	*	.0	*	.7	
1<2	0-3	*	*	*	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.1	.1	.1	.1	.1	.2	.1	.1	.0	.0	.8	
	11-21	.1	.2	.2	.1	*	.1	*	*	.0	.0	.7	
	22+	.0	.1	.1	*	.0	.1	.1	*	.0	.0	.4	
	TOT %	.3	.3	.4	.1	.1	.4	.2	.1	.0	.1	2.0	
2<5	0-3	.1	*	*	*	*	*	*	.1	.0	.3	.9	
	4-10	.3	.4	.4	.2	.2	.4	.2	.2	.0	.0	2.4	
	11-21	.2	.6	.4	.3	.3	.3	.1	.1	.0	.0	2.6	
	22+	.1	.1	.1	.1	*	.4	.7	*	.0	.0	1.3	
	TOT %	.7	1.1	1.1	.7	.3	1.3	1.0	.4	.0	.3	7.4	
5<10	0-3	.2	.2	.1	*	.1	.1	.1	.1	.0	1.4	2.3	
	4-10	1.3	1.4	.7	1.1	1.3	1.3	.8	.9	.0	.0	9.1	
	11-21	1.1	1.1	1.0	1.0	1.0	2.6	1.6	.8	.0	.0	10.3	
	22+	.3	.2	.3	.2	.3	1.2	2.0	.3	.0	.0	4.9	
	TOT %	3.2	2.9	2.1	2.3	2.7	5.5	4.5	2.1	.0	1.4	26.6	
10+	0-3	.6	.6	.2	.3	.3	.3	.4	.5	.0	2.7	5.9	
	4-10	4.3	3.9	1.9	2.3	4.1	4.5	2.9	3.0	.0	.0	26.9	
	11-21	2.1	2.2	1.0	1.2	2.7	3.7	4.1	1.6	.0	.0	20.3	
	22+	.2	.2	.0	.1	.7	2.6	2.9	.5	.0	.0	7.2	
	TOT %	7.2	6.8	3.1	4.0	7.8	13.1	10.3	5.6	.0	2.7	60.3	
TOT OBS													3480
TOT PCT													11.9 11.9 6.9 7.4 11.3 20.8 16.3 8.6 .0 5.0 100.0

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PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1854-1975AREA 0012 BUENOS AIRES
34.4S 52.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	11.2	.0	.0	2.7	9.7	5.4	2.3	1.2	.0	.0	32.6	67.4	258
06009	12.0	.4	1.2	2.8	12.4	6.8	2.4	1.6	.4	.0	39.8	60.2	251
12015	2.0	.2	1.1	6.5	18.8	15.0	3.4	.9	.0	.4	48.4	51.6	446
18021	2.3	.0	1.6	4.7	19.1	15.3	5.2	.2	.9	.7	50.2	49.8	444
TOT PCT	79 5.6	2 .1	13 1.1	64 4.6	225 16.1	166 11.9	50 3.6	12 .9	5 .4	5 .4	623 44.5	776 55.5	1399 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	.7	2.0	7.6	29.3	57.8	982
06009	4.1	.6	1.4	8.2	28.0	57.4	679
12015	2.3	.5	2.0	7.3	26.3	61.5	1078
18021	3.0	.9	2.4	6.2	23.1	64.4	789
TOT PCT	101 2.9	23 .7	72 2.0	239 7.3	944 26.8	2129 60.3	3528 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	13.1	14.0	22.9	17.3	59.8	214
06009	13.2	15.9	21.4	25.0	53.6	220
12015	2.2	4.6	22.0	31.1	46.9	409
18021	2.4	5.7	18.1	34.0	47.0	419
TOT PCT	76 6.0	108 8.6	262 20.8	365 28.9	635 50.3	1262 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.2	.4	4	.4
65/69	.0	.0	.0	.1	.3	.8	2.0	2.2	34	3.4
60/64	.0	.1	.1	.6	2.2	3.7	7.5	8.2	224	22.5
55/59	.0	.0	.2	.9	3.7	7.6	12.8	11.2	368	36.7
50/54	.0	.0	.0	.9	4.2	4.3	10.1	7.0	265	26.6
45/49	.0	.0	.0	.1	.9	2.1	2.6	1.7	74	7.4
40/44	.0	.0	.0	.0	.1	.1	.3	.5	10	1.0
TOTAL	0	1	3	26	114	189	354	310	997	100.0
PCT	.0	.1	.3	2.6	11.4	19.0	35.5	31.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0
65/69	1.6	1.9	.6	.2	.2	.4	.1	.3	.0	.0
60/64	4.1	6.1	2.0	2.6	2.5	2.1	1.3	1.6	.0	.4
55/59	4.7	3.4	3.2	5.4	4.2	7.6	5.0	2.2	.0	1.1
50/54	2.2	1.6	1.3	1.8	4.6	6.5	5.2	2.5	.0	.9
45/49	.4	.1	.2	.2	1.1	2.2	2.6	.7	.0	.1
40/44	.2	.1	.0	.0	.2	.1	.3	.2	.0	.0
TOTAL	13.2	13.1	7.2	10.1	12.7	18.3	14.4	7.8	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	67	64	55	47	45	37	55.6	2204
06009	72	67	64	55	46	42	37	54.8	1323
12015	76	70	66	56	48	44	36	56.5	2317
18021	74	69	66	57	48	45	37	57.0	1390
TOT	76	69	65	56	47	44	36	56.0	7434

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	10.2	15.8	26.5	34.6	84	266
06009	.0	1.1	8.4	19.5	35.8	35.3	83	190
12015	.0	1.9	10.7	19.8	23.3	34.3	84	318
18021	.0	5.8	15.6	19.8	35.8	23.0	80	257
TOT	0	31	117	193	363	327	83	1031

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PERIOD: (PRIMARY) 1911-1975
(OVER-ALL) 1954-1975

TABLE 17

AREA 0012 BUENOS AIRES
34.45 52.6WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	10	.0	.5
9/10	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	10	.0	.5
7/8	.0	.0	.0	.0	.0	.3	.2	.2	.3	*	24	.1	1.1
6	.0	.0	.0	.0	.0	.2	.3	.2	.2	.0	20	.0	1.0
5	.0	.0	.0	.0	*	.5	.3	.7	.2	.0	38	.1	1.8
4	.0	.0	.0	.0	.3	1.0	.9	.6	.3	*	64	.2	2.9
3	.0	.0	.0	.0	.3	1.2	1.9	.9	*	.0	90	.2	4.2
2	.0	.0	.0	.2	.5	2.7	2.7	1.7	.1	.0	163	.8	7.2
1	.0	.0	.0	*	1.4	3.1	2.8	1.4	.5	.1	189	.5	8.8
0	.0	.0	.0	.3	2.6	5.6	3.8	1.3	.2	*	283	1.4	12.5
-1	.0	.0	.0	.1	2.6	3.7	2.1	1.0	.2	.0	197	.7	9.0
-2	.0	.0	.1	.5	4.7	4.7	2.6	1.0	.2	*	282	1.4	12.5
-3	.0	.0	.0	.3	2.1	2.3	1.1	.5	.2	*	135	.4	6.2
-4	.0	.0	.0	.4	3.0	2.0	1.6	.3	*	*	154	.2	7.4
-5	.0	.0	*	1.5	1.9	.9	.6	.3	.0	.0	108	.0	5.3
-6	.0	.0	*	.3	.8	.8	.4	.2	.0	.0	55	.1	2.6
-7/-8	.0	.0	*	.7	1.1	.8	.6	.2	*	.0	72	.1	3.4
-9/-10	.0	.0	*	.2	.6	.4	.3	*	.0	.0	35	*	1.7
-11/-13	.0	.0	*	.5	.3	.6	.1	*	.0	.0	35	.0	1.7
-14/-16	.0	.0	.2	.5	.4	.2	.1	.0	.0	.0	29	.0	1.4
-17/-19	.0	.0	*	*	.1	.0	.0	.0	.0	.0	4	.0	.2
-20/-22	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	16	.0	.8
-23/-25	*	.6	.2	.1	.0	.0	.0	.0	.0	.0	19	.0	.9
TOTAL	1	14	25	129	638	464	480	229	9.0	12	2032	130	1902
PCT	*	.7	1.2	6.3	22.8	31.4	22.8	11.3	3.0	.6	100.0	6.4	93.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.5	1.3	.0	.0	.0	.0	1.7	.1	.6	.1	.0	.0	.0	.8
1-2	.1	1.9	.2	.0	.0	.0	2.2	*	2.8	1.0	.0	.0	.0	3.8
3-4	.0	.7	.8	.0	.0	.0	1.5	.0	.6	1.6	.0	.0	.0	2.2
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.7	1.1	.1	.0	.0	1.9
7	.0	.0	.3	.1	.0	.0	.6	.0	.0	1.0	.2	.0	.0	1.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.1	.0	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.9	1.7	.2	.0	.0	6.3	.1	4.6	5.2	.3	.0	.1	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.3	.0	.0	.0	.0	.5	.3	.5	.0	.0	.0	.0	.8
1-2	.0	2.1	.7	.0	.0	.0	2.7	.0	1.3	.4	.0	.0	.0	1.9
3-4	.0	.8	.9	.0	.0	.0	1.7	.0	.9	.5	.0	.0	.0	1.4
5-6	.0	.1	.7	.1	.0	.0	.2	.0	.1	.8	.1	.0	.0	1.1
7	.0	.0	.2	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.2
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	2.6	.3	.0	.0	6.5	.3	3.0	2.3	.3	.0	.0	6.0

PERIOD: (OVER-ALL) 1963-1975

JUNE

AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT):

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.7	.5	.0	.0	.0	.0	1.3	.7	.7	.1	.0	.0	.0	.9
1-2	.0	2.4	.3	.0	.0	.0	3.8	.0	2.3	.6	.0	.0	.0	2.9
3-4	.0	1.1	.7	.1	.0	.0	1.8	.0	2.4	2.2	.1	.0	.0	4.8
5-6	.0	.3	.3	.0	.0	.0	1.2	.0	.5	3.5	.3	.1	.0	4.3
7	.0	.1	.3	.3	.0	.0	.8	.0	.1	1.9	1.0	.0	.0	2.8
8-9	.0	.0	.3	.3	.0	.0	.7	.0	.0	1.5	.6	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.1	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.8
13-16	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	1.2	.3	.1	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.5	2.6	.7	.0	.0	9.6	.7	6.0	10.9	4.5	.9	.1	22.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.1	.6	.0	.0	.0	.0	.7	.2	.7	.0	.0	.0	.0	.9	
1-2	.0	.6	.6	.0	.0	.0	1.2	.0	.1	.2	.0	.0	.0	.3	
3-4	.0	.3	1.3	.1	.0	.0	1.9	.0	.0	.7	.1	.0	.0	.8	
5-6	.0	.3	2.3	.4	.0	.0	3.0	.0	.1	.3	.3	.0	.0	.6	
7	.0	.0	1.2	1.1	.3	.0	2.6	.0	.0	.3	.5	.0	.0	.8	
8-9	.0	.0	.7	.8	.1	.0	1.7	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.6	1.9	.5	.1	3.0	.0	.0	.1	.3	.0	.0	.4	
12	.0	.0	.1	.9	.4	.0	1.4	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	1.4	.8	.2	2.4	.0	.0	.1	.2	.1	.0	.4	
17-19	.0	.0	.0	.5	.4	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.0	6.8	7.3	3.3	.3	19.9	.2	.9	1.9	1.4	.3	.0	4.6	85.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.2	9.4	.2	.0	.0	.0	21.9	
1-2	.1	14.7	4.0	.0	.0	.0	18.8	
3-4	.2	6.8	8.6	.5	.0	.0	16.1	
5-6	.0	2.2	9.3	1.2	.1	.0	13.0	
7	.0	.1	3.8	3.2	.3	.0	9.4	
8-9	.0	.1	3.3	2.2	.1	.0	5.7	
10-11	.0	.0	1.7	2.9	.6	.1	5.3	
12	.0	.0	.1	1.3	.8	.0	2.4	
13-16	.0	.0	.3	2.7	1.2	.3	4.8	
17-19	.0	.0	.3	.7	.3	.0	1.3	
20-22	.0	.0	.0	.2	.3	.1	.8	
23-25	.0	.0	.0	.2	.3	.0	.8	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.5	29.3	33.9	15.3	4.4	.6	100.0	883

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-84	87+	TOTAL	MEAN HGT
4-6	1.5	9.8	9.9	3.4	2.5	.4	.5	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	366	3
6-7	.1	2.0	4.1	3.8	4.3	2.4	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	245	4
8-9	.0	.2	1.2	2.9	2.6	1.9	1.6	.7	1.3	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	137	6
10-11	.0	.3	.2	.3	.6	.8	.6	.2	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	9
12-13	.0	.0	.5	.3	.3	.2	.8	.2	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	40	11
15-13	.0	.0	.0	.1	.0	.2	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
INDEX	9.3	2.7	3.6	3.3	3.5	1.4	1.4	.7	1.3	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	347	5
TOTAL	134	183	237	220	166	88	76	26	48	15	12	8	2	0	0	0	0	0	0	0	1213	5
PCT	11.0	15.1	19.5	18.1	13.7	7.2	6.3	2.1	4.0	1.2	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974AREA 0012 BUENOS AIRES
34.45 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	4.7	1.3	.7	.0	.0	.0	.0	6.8	2.7	2.4	13.6	.9	2.5	.0	72.1
NE	7.2	4.3	1.1	.0	.0	.0	.0	12.8	5.5	5.4	13.5	.4	1.3	.0	65.1
E	6.0	4.0	2.0	.0	.0	.0	.0	12.0	2.2	2.3	8.2	.0	1.2	.0	75.2
SE	6.8	6.8	1.1	.0	.0	.0	.0	14.6	7.1	2.1	7.8	.0	.0	.0	68.4
S	3.4	3.4	.9	.0	.0	.0	.0	7.6	4.4	.5	5.9	.0	1.4	.0	80.4
SW	1.3	1.2	1.6	.0	.0	.0	.0	4.1	2.9	.1	3.6	.2	.3	.0	86.8
W	1.3	.0	1.7	.0	.0	.0	.0	3.0	1.6	.0	9.6	.5	.0	.0	85.4
NW	3.6	.0	1.7	.0	.0	.0	.0	5.4	1.7	1.4	10.1	.1	2.3	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.8	.8	.0	.0	.0	.0	2.4	2.4	.0	41.8	2.4	.0	.0	91.2
TOT PCT	4.0														
TOT OBS: 2350	2.5	1.3	.0	.0	.0	.0	.0	7.7	3.6	1.9	11.2	.4	1.1	.0	75.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	4.7	3.2	1.6	.0	.0	.0	.0	9.7	3.5	1.8	12.0	.4	.9	.0	73.1
0600	4.6	2.4	1.2	.0	.0	.0	.0	8.2	4.2	3.6	10.8	.6	.4	.0	73.9
1200	3.2	1.3	.7	.0	.0	.0	.0	3.2	2.2	1.6	10.1	.4	1.3	.0	80.3
1800	3.4	3.1	1.6	.0	.0	.0	.0	6.2	4.6	.8	12.2	.3	1.5	.0	72.9
TOT PCT	4.0														
TOT OBS: 2378	2.4	1.3	.0	.0	.0	.0	.0	7.7	3.5	1.9	11.2	.4	1.1	.0	75.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	6.1	4.7	1.1	.3	.0		13.2	11.9		11.3	14.7	13.2	17.1	14.0	14.1	10.8	10.8
NE	1.0	7.1	6.4	1.4	.2	.0		16.1	12.1		18.7	16.0	17.3	13.7	13.1	13.6	17.3	17.0
E	.5	3.5	2.2	.6	.2	.0		6.9	11.6		7.9	8.0	4.0	5.4	6.1	6.6	7.1	8.9
SE	.7	4.3	3.1	.8	.4	.0		9.3	12.4		9.2	11.1	9.0	11.3	8.4	9.6	7.0	11.5
S	.6	4.4	4.7	1.4	.4	.1		11.6	14.1		11.7	11.2	11.8	10.3	12.9	10.4	11.6	12.5
SW	.9	3.3	7.3	3.6	.9	.2		18.2	16.4		18.4	13.8	17.3	16.2	19.4	17.6	22.0	15.7
W	.6	3.7	3.9	1.8	.7	.1		10.9	15.8		9.9	10.0	11.7	10.3	10.0	13.0	10.3	11.2
NW	.6	4.3	3.3	.8	.1	.0		9.7	11.9		8.2	10.1	8.2	10.9	9.4	12.0	9.4	9.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		4.3	3.1	3.6	4.4	4.7	3.1	4.2	2.9
TOT OBS	743	2848	2847	848	236	44	7388		13.0		1293	846	871	437	1304	1231	969	421
TOT PCT	10.1	38.8	39.8	11.3	3.2	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	3.3	6.7	2.3	.5	.1			13.2	11.9		12.8	14.3	14.1	10.8
NE	3.9	8.3	3.1	.6	.1			16.1	12.1		17.7	16.0	14.3	17.2
E	2.1	3.4	1.1	.3	.1			6.9	11.6		7.9	5.8	6.3	7.7
SE	2.6	4.4	1.7	.5	.1			9.3	12.4		10.0	9.8	9.0	8.4
S	2.4	3.2	3.1	.7	.2			11.6	14.1		11.3	11.4	11.7	11.9
SW	2.9	7.0	3.7	2.1	.5			18.2	16.4		17.4	16.9	18.3	20.1
W	2.2	4.3	2.7	1.3	.4			10.9	15.8		10.0	11.3	11.4	10.7
NW	2.3	3.0	1.6	.3	.1			9.7	.9		9.0	9.1	10.7	9.3
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	4.1							4.1	.0		3.8	3.2	3.9	3.8
TOT OBS	1936	3285	1579	470	118	7388			13.0		2139	1328	2535	1386
TOT PCT	26.2	44.3	21.4	6.4	1.6			100.0			100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974AREA 0012 BUENOS AIRES
34.45 92.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			46+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.8	6.1	40.5	34.7	11.0	3.2	.6	12.3	100.0	2129
06009	5.2	5.4	36.1	38.5	11.4	2.9	.6	12.9	100.0	1328
12015	3.9	6.2	37.2	36.2	12.1	3.7	.7	13.4	100.0	2595
18021	3.8	6.0	41.7	34.3	11.0	2.7	.4	12.6	100.0	1386
TOT	303	442	2868	2647	848	296	44	13.0		7388
PCT	4.1	6.0	38.8	35.8	11.5	3.2	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.3	1.8	2.4	3.8		4.4
NE	4.2	2.3	4.4	7.8		3.5
E	1.4	.6	1.6	3.1		3.7
SE	1.3	.4	1.5	2.9		3.8
S	2.8	1.8	3.9	4.6		1.2
SW	7.0	3.6	6.1	9.1		4.6
W	2.4	1.3	1.7	2.1		4.3
NW	3.3	1.0	.8	1.6		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.3	.3	.7	4.0		3.2
TOT OBS	434	159	342	318	1489	4.8
TOT PCT	29.1	13.1	23.0	34.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.3	.0	.2	.5	1.2	.7	.6	.1	.0	.1	7.3	
2.7	.0	.5	.7	3.2	1.9	.6	.0	.3	.3	8.6	
.8	.0	.1	.4	1.1	1.1	.9	.0	.0	.1	2.8	
1.4	.0	.1	.6	.8	.5	.9	.1	.1	.0	2.1	
.7	.0	.0	1.1	2.1	2.4	.8	.1	.0	.0	6.0	
1.5	.0	.2	1.3	3.0	2.1	1.0	.1	.1	.2	12.3	
.5	.0	.1	.5	.9	.6	.4	.1	.0	.0	4.4	
.6	.0	.1	.3	.8	.3	.2	.1	.0	.1	4.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3.2	.0	.0	.1	.4	.6	.0	.0	.1	.0	2.7	
191	.0	18	78	204	133	40	8	8	11	788	
12.8	.0	1.2	5.2	13.7	10.3	4.0	.5	.5	.7	50.9	
										1489	
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	>0
> OR >4500	.7	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
> OR >3000	1.0	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.8
> OR >2500	3.5	5.6	5.8	5.8	5.8	5.8	5.8	5.8	5.8
> OR >2000	8.4	14.9	15.7	16.0	16.1	16.1	16.3	16.3	16.3
> OR >1000	13.5	23.2	28.3	29.1	29.3	29.7	29.9	29.9	29.9
> OR >600	13.9	29.4	33.5	34.3	34.5	34.9	35.1	35.1	35.1
> OR >300	16.3	30.3	34.6	35.5	35.8	36.2	36.3	36.3	36.3
> OR >150	16.3	30.3	34.6	35.5	35.8	36.2	36.3	36.3	36.3
> OR > 0	16.4	30.7	36.0	37.7	38.1	40.3	48.1	48.8	48.8
TOTAL	241	432	530	555	561	597	709	720	720

TOTAL NUMBER OF OBS: 1474

PCT FREQ NH <5/8: 51.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.1	7.7	9.6	6.9	6.0	4.8	6.2	7.7	17.8	11.2	1699

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974AREA 0012 BUENOS AIRES
34.4S 52.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.7	*	.3	*	.1	.0	.0	.0	.0	1.2	
	NO PCP	1.2	1.5	.3	.5	.4	.5	.5	.5	.0	2.0	7.7	
	TOT %	1.2	2.2	.6	.7	.5	.6	.5	.5	.0	2.0	8.9	
1/2<1	PCP	*	.1	.1	.1	*	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.3	.0	.0	*	.1	.1	.1	.0	.0	.8	
	TOT %	.3	.4	.1	.1	.1	.1	.1	.1	.0	.0	1.1	
1<2	PCP	.2	.7	*	.1	.1	*	.1	*	.0	.0	1.2	
	NO PCP	.2	.3	.0	*	*	.0	.1	.1	.0	.1	.8	
	TOT %	.3	1.1	*	.1	.1	.1	.1	.1	.0	.1	2.0	
2<5	PCP	.1	.4	.3	.3	.4	.2	.1	.2	.0	*	2.0	
	NO PCP	.7	1.2	.2	.4	.4	.6	.4	.1	.0	.2	4.1	
	TOT %	.8	1.6	.6	.7	.7	.8	.4	.3	.0	.2	6.0	
5<10	PCP	.4	.6	.3	.2	.3	.3	.1	.1	.0	.1	2.4	
	NO PCP	3.9	7.7	2.5	1.8	3.5	7.0	3.2	2.3	.0	.9	32.7	
	TOT %	4.3	8.3	2.8	2.0	3.8	7.3	3.2	2.4	.0	1.0	35.1	
10+	PCP	.1	*	*	.1	.1	.2	*	.1	.0	.0	.6	
	NO PCP	6.1	6.7	2.8	2.9	6.4	10.6	5.0	3.9	.0	1.9	46.2	
	TOT %	6.2	6.7	2.8	3.0	6.5	10.7	5.0	4.0	.0	1.9	46.8	
TOT OBS													
TOT PCT													
13.1 20.1 6.9 6.6 11.7 19.6 9.3 7.4 .0 5.2 100.0 2340													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	*	*	.1	*	*	.0	1.4	1.9	
	4-10	.8	.8	.4	.3	.3	.3	.3	.3	.0		3.6	
	11-21	.1	.8	.1	.1	.1	.2	.1	.1	.0		1.4	
	22+	.0	.1	.0	.1	.0	.0	.0	.0	.0		.2	
	TOT %	1.0	1.7	.3	.5	.3	.6	.4	.4	.0	1.4	7.0	
1/2<1	0-3	.1	*	.0	.0	*	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.1	*	*	*	.0		.3	
	11-21	*	.0	*	*	*	.0	.0	.0	.0		.1	
	22+	.0	.1	*	*	.0	.0	.0	.0	.0		.2	
	TOT %	.2	.3	.1	.1	.1	.1	*	.1	.0	.0	.8	
1<2	0-3	.0	.0	*	*	.0	.0	*	.0	.0	.1	.2	
	4-10	.1	.1	*	*	*	.1	*	.1	.0		.5	
	11-21	.1	.4	*	.1	.1	.1	.0	*	.0		.9	
	22+	*	.3	*	*	*	*	*	*	.0		.3	
	TOT %	.3	.8	.1	.2	.3	.2	.1	.1	.0	.1	2.1	
2<5	0-3	.1	*	*	.0	.0	*	.0	*	.0	.2	.4	
	4-10	.4	.7	.2	.2	.2	.2	.1	.1	.0		2.4	
	11-21	.4	.8	.2	.3	.3	.3	.1	.1	.0		2.2	
	22+	.1	.1	.1	.1	.4	.3	.2	.1	.0		1.4	
	TOT %	.9	1.4	.5	.7	.9	.9	.5	.3	.0	.2	6.3	
5<10	0-3	.3	.2	.1	.1	.1	.2	*	*	.0	1.0	2.1	
	4-10	1.8	2.3	1.3	.9	.9	1.7	1.0	1.0	.0		10.9	
	11-21	1.5	3.3	.7	.8	1.5	2.9	1.2	.6	.0		12.2	
	22+	.2	.8	.2	.1	.3	1.4	.3	.2	.0		3.5	
	TOT %	3.8	6.3	2.3	2.0	2.8	5.9	2.5	1.8	.0	1.0	28.6	
10+	0-3	.3	.3	.3	.3	.4	.4	.3	.3	.0	2.1	5.2	
	4-10	3.5	3.9	1.9	2.2	3.2	3.2	1.6	2.6	.0		22.1	
	11-21	2.9	3.3	1.1	1.4	3.1	3.9	2.3	2.0	.0		22.4	
	22+	.2	.2	.1	.2	.3	2.4	1.4	.4	.0		5.3	
	TOT %	7.1	8.0	3.3	4.1	7.2	11.9	5.9	5.3	.0	2.1	53.0	
TOT OBS													
TOT PCT													
14.3 18.8 6.9 7.6 11.6 19.3 9.4 8.2 .0 4.8 100.0 3627													

JULY

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974AREA 0012 BUENOS AIRES
34.45 52.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 3/8 BY HOUR

HRUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 3/8 ANY HGT	TOTAL OBS
149	149	299	599	999	1999	3499	4999	6499	7999				
00003	21.4	.0	.3	3.5	8.8	6.6	3.1	.3	.3	.0	44.3	53.7	318
06009	16.8	.0	2.0	5.9	12.8	4.6	2.3	.0	.0	.7	45.1	54.9	304
12015	7.3	.0	1.5	5.8	13.7	13.0	5.2	.6	.2	.2	49.6	50.4	466
18021	8.3	.0	.8	4.7	15.5	10.6	4.0	.8	1.3	1.7	47.7	52.3	472
TOT	192	0	18	78	204	195	60	8	8	11	734	826	1560
PCT	12.3	.0	1.2	5.0	13.1	9.9	3.8	.5	.5	.7	47.1	52.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	7.8	1.4	1.9	5.8	29.7	53.4	988
06009	8.1	.3	2.2	6.7	30.6	52.1	791
12015	5.6	.8	2.0	6.0	29.0	56.6	1098
18021	6.8	1.2	2.2	6.9	29.0	57.8	835
TOT	284	35	75	230	1044	2014	3652
PCT	7.0	1.0	2.1	6.3	28.6	55.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 3/8 AND 5+	TOTAL OBS
00003	22.8	23.8	31.0	17.0	52.0	294
06009	17.8	22.2	30.5	20.0	49.5	275
12015	7.0	9.0	20.2	31.8	48.0	446
18021	8.3	11.1	22.7	27.2	50.1	439
TOT	185	282	369	372	735	1474
PCT	12.6	19.1	25.0	25.2	49.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.1	.1	4	.4
65/69	.0	.0	.1	.1	.2	.4	1.3	.8	29	2.7
60/64	.0	.0	.1	.1	1.1	3.3	6.3	4.9	168	15.8
55/59	.0	.0	.1	.7	1.5	2.8	10.7	16.8	345	32.5
50/54	.0	.0	.1	.6	4.0	5.8	10.7	9.6	326	30.8
45/49	.0	.0	.0	.4	1.8	6.2	4.5	3.8	177	16.7
40/44	.0	.0	.0	.0	.0	.2	.6	.3	11	1.0
TOTAL	0	0	3	19	92	200	362	384	1060	100.0
PCT	.0	.0	.3	1.8	8.7	18.9	34.2	36.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.1	.0	.0	.0	.0	.0	.1
1.1	1.2	.1	.0	.1	.1	.1	.1	.0	.0
4.2	3.7	1.4	.6	1.4	.8	1.0	.8	.0	.0
6.4	9.5	2.8	1.8	3.2	4.1	2.6	2.1	.0	.4
2.5	2.3	2.1	3.3	5.2	8.4	3.6	3.2	.0	.2
.9	.4	1.2	2.0	3.2	4.3	2.3	1.2	.0	.8
.1	.0	.1	.0	.2	.3	.3	.1	.0	.0
15.4	19.1	7.4	7.8	13.3	18.1	10.2	7.4	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	67	63	54	46	43	41	53.8	2132
06009	70	66	63	53	45	43	40	53.3	1331
12015	76	68	64	55	46	43	39	54.9	2516
18021	73	68	65	56	47	44	40	55.8	1374
TOT	76	68	64	54	46	43	39	54.5	7353

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.2	9.3	14.9	32.3	41.3	85	269		
06009	.0	1.4	6.3	13.4	33.6	43.2	86	217		
12015	.0	1.6	5.3	23.4	35.8	34.0	85	321		
18021	.0	2.8	13.5	21.0	36.7	26.0	82	281		
TOT	0	22	94	263	378	391	85	1088		

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PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1854-1974AREA 0012 BUENOS AIRES
34.43 52.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	H FOG	WD FOG
17/19	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	1	.0	
14/16	.0	.0	.0	.0	.0	.0	*	.1	.0	*	4	.0	.2
11/13	.0	.0	.0	.0	.0	.1	.1	.2	.2	.0	14	.1	.5
9/10	.0	.0	.0	.0	.4	.7	.4	*	.0	.0	35	.0	1.6
7/8	.0	.0	.1	.1	1.0	2.7	.8	.1	*	.0	111	.5	4.4
6	.0	.0	.0	.1	.9	1.5	.3	*	.0	.0	63	.3	2.3
5	.0	.0	.1	.3	1.5	2.7	.8	.2	.0	*	126	.5	5.1
4	.0	.0	.1	1.3	2.8	2.2	.8	.1	.0	.0	165	.9	6.3
3	.0	.0	.1	.9	2.4	2.3	.7	.1	.0	.0	147	.8	3.7
2	.0	.0	.6	2.0	4.3	2.2	.4	.1	*	.0	217	1.6	8.1
1	.0	*	.4	2.6	3.1	1.6	.4	.1	.0	.0	185	1.0	7.3
0	.0	.1	.8	5.2	3.4	2.1	.9	.2	.0	.0	286	1.3	11.0
-1	.0	.0	1.4	2.8	2.0	.8	.2	.1	.0	.0	164	.6	6.7
-2	.0	.0	2.3	4.8	1.8	.4	.1	.0	.0	.0	214	2.1	7.4
-3	.0	*	1.6	1.1	.9	.4	.3	.2	.0	.0	127	.6	3.1
-4	.0	.1	2.2	4.2	.8	.7	.4	.0	.0	.0	139	.6	3.6
-5	.0	.1	1.3	1.1	.3	.3	.3	*	.0	.0	78	.3	3.2
-6	.0	.2	.6	.4	.2	.4	.0	.0	.0	.0	41	.3	1.6
-7/-8	.0	.4	.9	.4	.7	.5	.1	.0	.0	.0	69	.1	2.9
-9/-10	.0	.2	.4	.1	.3	.2	.0	.0	.0	.0	30	.1	1.2
-11/-13	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	19	.0	.8
-14/-16	.0	*	*	.2	*	.0	.0	.0	.0	.0	8	.0	.4
-17/-19	.0	*	.1	*	.0	.0	.0	.0	.0	.0	4	.0	.2
-20/-22	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	2	33	303	607	488	7.2	1.7	.3	.1	2248	264	1984	
PCT	.1	1.3	13.3	27.0	27.0	21.7	7.2	1.7	.3	.1	100.0	11.7	88.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.6	.0	.0	.0	.0	1.0	.3	.9	.0	.0	.0	.0	1.3
1-2	.2	1.8	.3	.0	.0	.0	2.4	.1	2.9	1.1	.0	.0	.0	4.1
3-4	.1	1.5	1.6	.1	.0	.0	3.3	.0	2.1	3.4	.2	.0	.0	5.8
5-6	.1	.2	1.0	.2	.0	.0	1.4	.0	.1	1.8	.4	.1	.0	2.3
7	.0	.0	.4	.1	.0	.0	.3	.0	.0	1.4	.2	.0	.0	1.7
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.1	.6	.3	.0	.0	1.0
10-11	.0	.1	.2	.0	.0	.0	.3	.0	.0	.6	1.0	.2	.0	1.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.2	3.8	.6	.0	.0	9.4	.5	6.1	9.1	3.3	.7	.0	19.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.1	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.0
1-2	.1	1.2	.5	.0	.0	.0	1.8	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.7	1.5	.0	.0	.0	2.2	.0	.3	.4	.1	.0	.0	1.8
5-6	.0	.0	.5	.1	.0	.0	.6	.0	.1	.8	.1	.0	.0	1.0
7	.0	.0	.9	.1	.0	.0	1.0	.0	.1	.1	.0	.0	.0	.3
8-9	.0	.0	.1	.2	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.0	3.3	.6	.0	.0	7.3	.3	2.3	2.1	.3	.1	.0	5.3

AREA 0012 BUENOS AIRES
34.4S 52.6W

34.45 52.6W

SW

[illegible]

HBT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	14.4	5.5	.3	.0	.0	.0	20.2	
1-2	.3	12.4	4.4	.0	.0	.0	17.3	
3-4	.1	9.7	13.3	.6	.0	.0	23.7	
5-6	.1	1.0	10.0	1.9	.1	.0	13.1	
7	.0	.3	7.7	1.2	.1	.0	9.3	
8-9	.0	.1	2.6	1.7	.0	.0	4.4	
10-11	.1	.2	2.8	2.9	.4	.0	6.4	
12	.0	.0	.3	1.6	.2	.0	2.1	
13-16	.0	.0	.1	2.4	.4	.0	3.0	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.1	.0	.0	.2	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-88	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.2	29.2	41.4	12.6	1.6	.0	100.0	939

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

AUGUST

APEA 0012 BUENOS AIRES
34.55 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	2.4	.7	1.5	.0	.0	.0	.0	4.6	1.0	3.3	7.8	.0	2.5	.3		81.8
NE	3.9	1.9	1.6	.0	.0	.0	.0	7.5	1.6	3.1	15.3	.7	2.9	.0		71.2
E	5.5	3.7	2.5	.0	.0	.0	.0	11.7	2.0	1.3	11.7	.0	2.0	.0		72.3
SE	5.3	3.0	2.9	.0	.0	.0	.0	11.2	1.0	1.3	11.9	.3	1.0	.0		74.1
S	5.1	4.1	1.2	.0	.0	.0	.0	10.4	1.5	1.8	8.9	.0	1.7	.0		76.0
SW	3.1	1.9	.1	.0	.0	.0	.0	5.0	.9	.8	5.3	.0	.6	.0		87.6
W	3.4	2.0	.6	.0	.0	.0	.0	6.0	.0	1.1	5.3	.0	2.1	.0		85.7
NW	.7	.2	.4	.0	.0	.0	.0	1.2	2.6	.7	6.3	.0	.5	.7		87.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.9	2.8	.0	.0	.0	.0	.0	4.7	2.8	.9	40.2	.9	.0	.0		50.5
TOT PCT OBS:	3.6	2.2	1.2	.0	.0	.0	.0	7.0	1.3	1.8	10.9	.2	1.6	.1		78.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.6	2.5	1.8	.0	.0	.0	.0	8.8	1.9	2.8	9.9	.0	1.1	.2	77.1
0600	3.1	2.7	1.1	.0	.0	.0	.0	8.9	2.2	3.3	7.8	.4	.9	.0	76.9
1200	2.9	1.4	.8	.0	.0	.0	.0	5.1	.7	.1	13.6	.3	2.9	.1	77.8
1800	2.4	2.6	1.1	.0	.0	.0	.0	6.0	.7	.2	11.0	.2	1.6	.0	80.2
TOT PCT TOT OBS:	3.6 2294	2.2	1.2	.0	.0	.0	.0	7.0	1.3	1.8	10.9	.2	1.6	.1	78.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	3.7	4.4	1.0	.2	.0	12.1	11.7	13.1	12.6	12.0	12.5	12.2	10.9	12.1	11.8		
NE	1.0	6.9	6.0	1.2	.2	.0	15.4	12.0	16.3	15.8	17.5	13.2	14.8	13.5	14.6	14.4		
E	.7	4.7	3.0	.8	.2	.0	9.4	11.8	9.9	10.4	7.8	10.9	8.4	9.7	8.5	11.7		
SE	.8	3.7	3.3	1.3	.4	.1	11.3	12.6	10.7	13.9	9.2	16.0	10.2	12.0	9.5	15.7		
S	.9	3.6	3.5	2.0	.3	.2	14.7	14.1	14.7	14.5	13.6	13.8	16.1	14.1	14.5	15.9		
SW	1.0	3.2	6.2	2.4	.6	.1	15.4	14.7	16.1	13.8	18.0	13.1	15.4	13.9	17.6	13.2		
W	.7	3.7	3.0	1.3	.4	.1	9.1	13.8	8.8	7.3	8.9	8.2	9.3	10.9	9.9	7.6		
NW	.6	3.9	2.6	.8	.3	.1	8.3	12.3	9.5	8.5	8.7	9.6	9.6	11.3	6.1	6.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.1						4.1	.0	3.0	3.2	4.4	3.1	4.0	3.6	4.8	3.3		
TOT OBS	784	3038	2493	798	195	45	7355			1311	827	856	423	1349	1238	914	427	
TOT PCT	10.7	41.3	33.9	10.8	2.7	.6	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	12	18
N	3.4	6.2	2.0	.4	.1	12.1	11.7	12.9	12.4	11.6	12.0	
NE	3.6	8.3	2.8	.6	.1	15.4	12.0	16.1	16.0	14.2	13.9	
E	2.8	4.7	1.3	.4	.1	9.4	11.8	10.1	6.8	9.0	9.5	
SE	3.2	3.3	2.1	.7	.2	11.3	12.6	11.1	11.4	11.1	11.5	
S	3.2	6.3	3.8	.8	.3	14.7	14.1	14.6	13.4	15.2	14.9	
SW	3.2	6.0	4.7	1.3	.2	15.4	14.7	15.2	16.4	14.7	16.3	
W	2.4	3.8	2.0	.7	.2	9.1	13.8	8.2	8.7	10.1	9.2	
NW	2.2	3.9	1.6	.3	.1	8.3	12.3	6.7	9.0	10.4	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1					4.1	.0	4.3	4.0	3.8	4.3	
TOT OBS	2067	3290	1505	393	100	7355		2144	1279	2587	1341	
TOT PCT	28.1	44.7	20.3	5.3	1.4	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

AUGUST

AREA 0012 BUENOS AIRES
34.95 52.64

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALN	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT	TOTAL
				11-21	22-33	34-47			FREQ	OBS
0000Z	4.3	6.2	41.3	24.4	10.4	2.7	-7	12.3	100.0	2148
0400Z	4.0	7.0	39.8	34.7	11.6	2.4	-5	12.5	100.0	1279
1201Z	3.8	6.3	41.7	33.0	11.4	3.0	-7	12.7	100.0	2587
1802Z	4.3	7.2	42.0	34.3	9.8	2.0	-4	11.9	100.0	1941
TOT	341	483	3038	2495	798	195	43	12.4		7355
PCT	4.1	6.5	41.3	33.9	10.8	2.7	-6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.3	3.7	3.0		4.0
NE	6.8	2.6	3.3	6.7		4.5
E	2.4	.6	1.4	3.8		3.3
SE	1.3	.7	1.6	3.9		3.6
S	3.6	1.7	2.4	5.0		3.0
SW	8.4	2.9	4.0	4.0		3.7
W	3.0	.9	1.7	2.1		4.2
NW	2.4	.7	.9	1.4		3.8
VAR	.0	.0	.0	.0		.0
CALN	1.2	.5	.2	3.9		6.0
TOT OBS	363	172	279	488	1442	4.5
TOT PCT	34.9	11.9	19.3	23.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1800	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	1.1	.1	.1	.6	1.0	.7	.4	.1	.3	.4	8.8	
NE	2.7	.0	.2	1.1	2.2	1.8	.2	.2	.1	.1	10.7	
E	1.5	.0	.1	.7	1.1	1.1	.1	.0	.1	.2	3.6	
SE	1.5	.1	.2	.6	1.0	.7	.6	.1	.1	.0	3.0	
S	1.7	.1	.3	.8	1.6	1.4	.4	.1	.1	.1	6.3	
SW	1.6	.0	.2	.7	2.0	1.8	.5	.2	.0	.1	12.2	
W	.7	.0	.1	.2	1.2	.7	.2	.0	.1	.1	4.4	
NW	.3	.0	.1	.2	.5	.5	.1	.0	.0	.1	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALN	2.8	.0	.0	.2	.6	.3	.0	.0	.0	.1	1.8	
TOT OBS	199	4	19	75	162	127	37	10	12	14	783	1442
TOT PCT	13.8	.3	1.3	5.2	11.2	8.8	2.8	.7	.8	1.0	54.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>8500	.9	1.4	1.6	1.6	1.6	1.6	1.7	1.7
>8000	1.3	2.0	2.2	2.2	2.2	2.2	2.4	2.4
>7500	2.9	4.3	4.7	4.7	4.7	4.7	4.9	4.9
>7000	6.7	11.3	12.8	13.1	13.2	13.4	13.7	13.7
>6500	11.1	20.8	23.2	23.9	24.1	24.3	24.9	24.9
>6000	12.9	23.0	26.2	27.1	27.3	27.8	28.2	30.2
>5500	13.3	23.8	27.2	30.3	30.7	31.1	31.6	31.6
>5000	13.3	26.1	29.3	30.6	30.9	31.4	31.8	31.8
>4500	13.3	28.8	31.6	32.8	33.4	37.0	44.8	43.6
TOTAL	191	383	493	470	480	531	643	654

TOTAL NUMBER OF OBS: 1435

PCT FREQ NM <5/8: 54.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL
										OBS
	29.1	9.9	8.7	5.3	5.6	3.9	3.9	6.7	17.0	1623

PERIOD: (P4) 1910-1974
(OVER-ALL) 1955-1974

AUGUST

AREA 0012 BUENOS AIRES
34.95 52.64

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.9	.1	.0	.1	.0	.0	.0	.0	.0	
	NO PCP	.0	2.2	.7	.8	1.0	.8	.1	.1	.0	1.7	8.9	
	TOT S	.0	2.4	1.0	.9	1.0	.9	.2	.1	.0	1.7	9.1	
1/2<1	PCP	.1	.9	.1	.0	.1	.1	.0	.0	.0	.0	.5	
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.2	.0	.0	.4	
	TOT S	.2	.1	.1	.0	.1	.1	.1	.2	.0	.0	.9	
1<2	PCP	.0	.3	.2	.1	.2	.2	.0	.0	.0	.1	1.1	
	NO PCP	.7	.3	.0	.1	.1	.0	.1	.1	.0	.1	1.0	
	TOT S	.2	.6	.2	.2	.3	.2	.1	.1	.0	.2	2.1	
2<5	PCP	.1	.4	.2	.2	.4	.3	.2	.0	.0	.0	1.8	
	NO PCP	1.1	1.2	.4	.3	.2	.4	.3	.3	.0	.2	4.4	
	TOT S	1.2	1.6	.7	.5	.6	.7	.5	.3	.0	.3	6.9	
5<10	PCP	.2	.4	.3	.5	.5	.3	.2	.0	.0	.0	2.5	
	NO PCP	4.0	5.3	2.6	2.0	3.6	6.1	2.8	2.3	.0	.9	26.5	
	TOT S	5.0	5.9	2.9	2.6	4.1	6.4	2.9	2.3	.0	.9	33.0	
10+	PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	6.0	7.3	4.0	4.7	6.6	10.9	4.0	3.4	.0	1.3	48.4	
	TOT S	6.1	7.3	4.0	4.8	6.7	10.6	4.0	3.4	.0	1.3	48.7	
TOT OBS													2231
TOT PCT		13.6	17.9	8.8	8.9	12.8	19.2	7.8	6.3	.0	4.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.3	.0	.1	.1	.1	.0	.0	.0	1.4	2.2	
	4-10	.4	.9	.4	.6	.4	.3	.1	.1	.0	.0	3.0	
	11-21	.3	.3	.2	.1	.2	.2	.1	.1	.0	.0	1.6	
	22+	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	.8	1.6	.7	.8	.8	.8	.2	.2	.0	1.4	7.5	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.4	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.2	.1	.1	.0	.1	.0	.1	.1	.0	.1	.8	
1<2	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.2	.4	
	4-10	.1	.2	.2	.1	.1	.1	.1	.0	.0	.0	.8	
	11-21	.2	.2	.1	.0	.2	.1	.1	.0	.0	.0	.9	
	22+	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	TOT S	.3	.6	.3	.2	.3	.3	.2	.1	.0	.2	2.5	
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.6	
	4-10	.3	.3	.3	.3	.2	.4	.3	.2	.0	.0	2.7	
	11-21	.3	.3	.4	.3	.3	.3	.3	.1	.0	.0	3.2	
	22+	.1	.2	.1	.2	.2	.2	.0	.0	.0	.0	1.0	
	TOT S	1.1	1.7	.8	.8	.8	.9	.6	.3	.0	.2	7.4	
5<10	0-3	.2	.4	.2	.1	.1	.1	.1	.2	.0	.8	2.2	
	4-10	2.2	1.9	1.3	1.4	1.4	1.4	1.0	1.0	.0	.0	11.4	
	11-21	1.7	2.3	1.3	.7	1.8	2.6	.8	.9	.0	.0	11.6	
	22+	.2	.4	.1	.1	.0	1.2	.3	.0	.0	.0	3.1	
	TOT S	4.3	4.9	2.8	2.3	3.0	5.1	2.4	2.0	.0	.8	28.2	
10+	0-3	.6	.3	.3	.3	.5	.4	.3	.2	.0	1.4	4.7	
	4-10	3.1	3.7	2.7	2.3	3.9	3.3	2.2	2.2	.0	.0	24.7	
	11-21	2.4	3.1	1.3	1.8	3.4	3.4	2.0	1.0	.0	.0	20.2	
	22+	.3	.3	.1	.3	.7	1.4	.5	.2	.0	.0	3.8	
	TOT S	6.3	7.3	4.6	5.0	6.4	10.6	5.0	3.6	.0	1.4	53.3	
TOT OBS													2431
TOT PCT		13.0	16.8	9.4	10.0	14.0	17.7	8.6	6.4	.0	4.0	100.0	

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1855-1974

AUGUST

AREA 0012 BUENOS AIRES
34.55 92.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	21.3	.3	1.2	4.2	4.8	3.0	1.8	.9	1.5	.6	39.5	60.5	334				
0600	11.7	.7	.4	3.7	13.9	4.4	1.8	.4	.4	.7	38.1	61.9	273				
1200	13.3	.2	1.4	7.4	10.2	13.9	2.6	.2	.6	.6	50.4	49.6	502				
1800	7.2	.0	1.6	3.4	13.1	7.9	3.2	1.1	.7	1.6	39.6	60.4	444				
TOT	202	4	19	76	163	127	38	10	12	14	645	888	1553				
PCT	13.0	.3	1.2	4.9	10.5	8.2	2.4	.6	.8	.9	42.8	57.2	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	8.2	.8	1.3	8.6	30.3	50.8	953
0600	6.3	.3	2.4	7.1	33.0	50.9	461
1200	8.3	1.2	2.6	7.0	27.3	53.6	1102
1800	6.9	.8	3.7	6.2	23.6	58.8	763
TOT	283	29	86	233	988	1858	3479
PCT	7.6	.8	2.3	7.3	28.4	53.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	24.1	26.8	33.7	12.4	54.0	291
0600	12.8	16.8	24.4	18.0	57.6	250
1200	13.5	16.3	28.5	23.6	48.9	473
1800	7.4	10.0	21.1	23.0	35.8	421
TOT	197	239	383	299	753	1435
PCT	13.7	16.7	26.7	20.8	52.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.3	1.0	.8	.9	32	3.0
66/64	.0	.0	.2	.7	2.2	3.0	3.0	4.4	183	15.3
67/60	.0	.0	.1	.7	3.1	6.1	10.4	12.4	346	32.8
68/54	.0	.0	.1	.3	3.5	6.1	11.8	9.9	339	31.8
69/49	.0	.0	.0	.0	2.0	6.1	4.6	2.6	181	15.3
70/44	.0	.0	.0	.0	.7	.4	.3	.4	18	1.7
TOTAL	0	4	20	124	289	347	321	1055	1055	100.0
PCT	.0	.0	.4	1.9	11.8	22.7	32.9	30.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.9	1.4	.1	.0	.1	.1	.0	.4	.0	.0
66/64	3.3	4.3	2.1	1.3	.8	1.2	.6	1.1	.0	.3
67/60	4.4	9.6	4.9	3.0	3.2	3.8	1.8	1.8	.0	.6
68/54	3.6	4.3	2.3	2.9	4.8	7.2	3.1	2.7	.0	.9
69/49	1.4	.4	.6	2.3	2.9	3.7	1.8	1.7	.0	.4
70/44	.1	.0	.1	.3	.3	.3	.3	.1	.0	.0
TOTAL	13.9	20.3	10.0	9.9	12.2	16.3	7.7	7.3	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	69	66	62	53	46	42	37	53.4	2144
0600	68	66	62	53	46	44	41	52.9	1276
1200	74	68	64	54	46	43	39	54.6	2531
1800	74	68	64	53	47	45	42	55.4	1518
TOT	74	67	63	54	46	43	37	56.1	7269

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.8	9.1	20.8	33.8	33.6	84	263		
0600	.0	.9	10.1	20.2	33.9	34.9	84	218		
1200	.0	2.1	11.7	21.6	32.9	31.7	83	334		
1800	.0	4.7	13.3	28.6	29.1	24.1	80	278		
TOT	0	24	128	243	360	338	83	1095		

PERIOD: (PRIMARY) 1910-1974
(OVER-ALL) 1935-1974

AUGUST

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34.95 52.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDC (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	TOT	N PDC	NO PDC
14/16	.0	.0	.0	.0	.0	.4	.1	.0	.0	11	.0	.5
11/13	.0	.0	.0	.0	.0	.3	.2	.1	.0	14	.0	.6
9/10	.0	.0	.0	.0	.0	.2	.4	.1	.0	16	.0	.8
7/8	.0	.0	.0	.1	1.3	1.1	1.0	.0	.0	77	.8	2.9
6	.0	.0	.0	.3	1.9	1.0	.3	.0	.0	74	1.0	2.5
5	.0	.0	.0	1.1	2.4	2.2	.9	.2	.0	139	1.4	5.2
4	.0	.0	.1	3.0	2.3	2.1	.6	.1	.0	174	1.1	7.2
3	.0	.0	.0	2.9	1.9	1.9	.6	.1	.0	124	1.1	6.2
2	.0	.0	.0	1.6	5.2	3.8	2.5	.3	.0	287	1.8	12.0
1	.0	.0	.0	1.7	2.1	2.7	1.5	.3	.4	184	.9	8.0
0	.0	.0	.0	2.6	3.4	3.3	1.7	.4	.2	246	.7	11.0
-1	.0	.0	.0	2.2	2.9	2.2	.5	.2	.0	171	.9	7.3
-2	.0	.0	.0	2.1	2.4	1.5	.5	.6	.1	153	.5	6.8
-3	.0	.0	.0	1.1	1.3	.7	.6	.1	.1	82	.0	3.9
-4	.0	.0	.1	1.4	1.1	.6	.4	.2	.0	84	.2	3.8
-5	.0	.0	.1	.8	.8	.6	.9	.1	.0	68	.0	3.2
-6	.0	.0	.3	.3	.5	.0	.3	.2	.0	37	.1	1.6
-7/-8	.0	.4	.5	.7	.5	.2	.1	.0	.0	51	.2	2.2
-9/-10	.0	.3	.4	.4	.7	.1	.0	.0	.0	41	.3	1.7
-11/-13	.3	.1	.1	.2	.1	.1	.0	.0	.0	22	.1	1.0
-14/-16	.0	.0	.1	.1	.0	.0	.0	.0	.0	6	.0	.2
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	8	34	320	297	564	377	148	40	4	2092	238	1854
PCT	.4	1.4	15.3	28.5	27.0	18.0	7.1	1.9	.2	100.0	11.4	88.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.0	1.3	.0	.0	.0	.0	2.1	C1	.0	1.2	.0	.0	.0	.0	2.0
1-2	.1	2.5	.4	.0	.0	.0	3.0	1-2	.1	2.2	.8	.0	.0	.0	3.1
3-4	.0	1.1	2.0	.3	.0	.0	3.4	3-4	.0	3.0	2.3	.2	.0	.0	5.5
5-6	.0	.3	1.7	.4	.0	.0	2.3	5-6	.0	.3	3.5	.4	.0	.0	4.2
7	.0	.0	.4	.1	.0	.0	.5	7	.0	.0	1.1	.2	.1	.0	1.4
8-9	.0	.0	.1	.4	.0	.0	.5	8-9	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.0	.2	.0	.0	.2	10-11	.0	.1	.3	.3	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.1	.0	.1	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	4.3	1.3	.0	.0	11.9	TOT PCT	.0	7.0	8.8	1.1	.3	.0	18.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.1	1.5	.0	.0	.0	.0	1.6	C1	.2	1.4	.1	.0	.0	.0	1.7
1-2	.2	.9	.0	.0	.0	.0	1.7	1-2	.0	1.3	.2	.0	.0	.0	1.5
3-4	.0	.7	1.6	.1	.0	.0	2.4	3-4	.0	.4	.3	.0	.0	.0	.9
5-6	.0	.1	.4	.2	.0	.0	.7	5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.1	.0	.1	.0	.0	.2	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.3	2.5	.3	.0	.0	6.7	TOT PCT	.2	3.1	1.2	.0	.0	.0	4.5

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0012 BUENOS AIRES
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
WT														
41	.4	.8	.0	.0	.0	.0	1.4	.9	1.1	.1	.0	.0	.0	2.1
1-2	.4	1.6	1.0	.0	.0	.0	2.9	.4	1.8	.8	.0	.0	.0	2.6
3-4	.0	1.0	2.3	.0	.0	.0	3.3	.0	2.5	1.7	.1	.0	.0	4.4
5-6	.0	.4	1.8	.3	.0	.0	2.5	.0	.4	1.7	.0	.0	.0	2.2
7	.0	.0	.8	.6	.0	.0	1.4	.0	.3	3.0	.6	.0	.0	3.8
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	1.5	.0	.0	1.7
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.8	.4	.5	.0	1.2
12	.0	.0	.5	.0	.0	.0	.6	.0	.0	.2	.4	.0	.0	.6
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.2	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.0	5.6	1.4	.0	.0	12.9	1.0	6.1	10.7	3.3	.4	.0	21.5

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
WT															
41	.1	.5	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.4	.6	.0	.0	.0	2.0	
3-4	.0	.6	1.1	.0	.0	.0	1.7	.0	.4	.7	.0	.0	.0	1.1	
5-6	.0	.1	.2	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4	
7	.0	.8	.6	.3	.0	.0	.9	.0	.0	.3	.1	.0	.0	.4	
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.2	.6	.0	.0	.2	
10-11	.0	.0	.1	.6	.0	.0	.8	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.2	3.5	2.0	.4	.0	6.1	.0	2.5	2.2	.1	.0	.0	4.8	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

WT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	15.1	8.4	.3	.0	.0	.0	23.7	
1-2	.9	12.6	9.1	.0	.0	.0	18.6	
3-4	.0	9.7	12.2	.7	.0	.0	22.3	
5-6	.0	1.6	10.1	1.2	.0	.0	12.8	
7	.0	.4	8.0	2.1	.1	.0	10.6	
8-9	.0	.3	1.6	2.8	.0	.0	4.6	
10-11	.0	.1	1.8	1.7	.0	.0	3.1	
12	.0	.1	.7	.7	.1	.0	1.6	
13-16	.0	.0	.1	.4	.3	.0	.8	
17-19	.0	.0	.1	.1	.4	.0	.7	
20-22	.0	.0	.0	.1	.1	.0	.3	
23-25	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.0	33.2	40.0	9.8	1.0	.0	100.0	761

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-49	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.1	8.4	13.5	5.2	2.6	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	411	3
6-7	.0	.9	4.7	6.2	5.0	2.2	1.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	6
8-9	.0	.3	2.3	2.7	2.0	.8	.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	7
10-11	.0	1.3	.6	.6	.6	.1	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	5
12-13	.0	.0	1.3	.6	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
13	.0	.0	.0	.9	.3	.1	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	20	7
INDEX	8.3	4.7	4.7	3.4	2.0	1.1	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	3
TOTAL	132	196	342	248	163	76	92	23	15	7	3	4	0	0	0	0	0	0	0	1263	4
PCT	10.4	15.5	27.0	19.6	13.0	6.0	4.1	2.0	1.2	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1859-1973

AREA 0012 BUENOS AIRES
34.33 52.84

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS WD PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.1	.5	.9	.0	.0	.0	.0	4.4	1.1	.9	9.8	.0	1.7	.0	83.8
NE	5.0	2.1	.8	.0	.0	.0	.0	7.9	.4	1.2	5.7	.3	1.0	.0	84.2
E	8.0	1.8	2.4	.0	.0	.0	.0	12.2	.4	2.1	5.1	.5	.7	.0	80.2
SE	4.5	.0	3.2	.0	.0	.0	.0	7.7	.5	1.7	3.0	.5	2.0	.0	85.0
S	4.1	.4	2.6	.0	.0	.0	.0	7.1	2.2	.8	4.1	.0	1.7	.0	84.2
SW	2.5	1.1	1.4	.0	.0	.0	.4	5.4	2.2	1.1	4.9	.0	.4	.0	86.4
W	1.6	.8	.8	.0	.0	.0	.0	3.1	.0	.0	3.5	.6	.6	.0	91.4
NW	.3	1.1	.0	.3	.0	.0	.0	1.4	.1	.0	9.2	2.4	1.4	.0	85.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	1.9	7.5	.0	.0	.0	.0	11.3	1.9	.0	13.2	3.8	.0	.0	69.8
TOT PCT	4.0	1.1	1.8	.0	.0	.0	.1	6.9	1.1	1.0	5.6	.5	1.1	.0	84.2
TOT OBS:	1760														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGS WD PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	3.7	.9	1.1	.0	.0	.0	.3	6.0	.9	2.0	5.4	.6	1.4	.0	84.9
0600Z	4.2	1.3	3.7	.0	.0	.0	.0	9.2	1.8	2.0	7.4	.3	1.3	.0	78.4
1200Z	4.1	.9	1.9	.0	.0	.0	.0	6.8	1.0	.2	4.8	.2	1.4	.0	85.8
1800Z	3.6	1.3	1.3	.0	.0	.0	.0	6.1	.8	.0	5.9	.8	.8	.0	85.4
TOT PCT TOT OBS:	3.9 1788	1.1	2.0	.0	.0	.0	.1	7.0	1.1	1.0	5.7	.4	1.2	.0	83.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.9	3.2	3.3	1.0	.2	.0		10.6	11.5		9.6	10.0	11.2	12.0	10.3	12.0	10.7	9.2
NE	1.4	8.1	6.8	1.8	.3	.1		18.3	12.2		17.4	19.2	21.4	18.9	18.4	15.8	20.1	16.6
E	.9	6.2	3.3	.7	.2	.0		11.4	10.7		14.0	11.8	9.6	11.7	10.3	10.3	9.9	14.8
SE	.9	6.3	4.3	.9	.4	.0		12.7	11.8		12.9	14.0	11.0	13.0	12.9	12.4	11.4	14.9
S	.8	5.8	3.9	1.8	.2	.1		14.2	13.2		14.3	14.3	13.2	13.2	13.4	14.0	14.9	13.6
SW	.8	5.0	5.7	2.6	.9	.2		19.2	15.7		14.4	14.0	16.3	14.3	13.9	13.8	15.1	14.2
W	.7	3.2	2.4	.9	.3	.2		7.7	14.1		7.0	5.4	6.3	6.7	7.8	9.7	9.7	8.6
NW	.7	3.1	2.0	.6	.2	.0		6.7	11.6		4.4	7.4	7.3	6.6	5.2	7.6	5.8	5.6
VAR	1.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		3.7	4.1	3.3	3.3	2.9	2.1	2.3	2.4
TOT OBS	641	2704	2193	649	165	34	6346		12.3		1092	740	688	498	1103	1147	729	449
TOT PCT	10.1	42.4	33.9	10.2	2.4	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WHD DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.3	5.0	1.9	.4	.1		10.6	11.5	9.8	11.5	11.2	10.1		
NE	4.5	9.2	4.2	.3	.1		18.3	12.3	17.4	19.2	21.4	18.9	17.1	
E	2.8	5.9	1.6	.3	.1		11.4	10.7	14.0	11.8	9.6	11.7	10.4	
SE	3.4	6.4	2.2	.3	.1		12.7	11.8	12.9	14.0	11.0	13.0	12.6	
S	3.0	6.7	3.8	.6	.1		14.2	13.2	14.3	14.3	13.2	13.4	14.0	
SW	3.0	5.8	4.4	1.4	.3		19.2	15.7	14.4	14.0	16.3	14.3	13.8	
W	2.1	3.3	1.3	.6	.4		7.7	14.1	7.0	5.4	6.3	6.7	7.8	
NW	2.1	3.2	1.1	.3	.1		6.7	11.6	4.4	7.4	7.3	6.6	5.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
CALM	3.0						3.0	.0	3.7	4.1	3.3	2.9	2.1	
TOT OBS	1774	2884	1299	297	92	6346		12.3	1092	740	688	498	1103	
TOT PCT	28.0	43.4	20.3	4.7	1.4		100.0		100.0	100.0	100.0	100.0	100.0	

SEPTEMBER:

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1899-1973

AREA 0012 BUENOS AIRES
34.35 52.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALN	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.9	7.4	43.4	32.8	10.1	2.0	.6	11.9	100.0	1792
0400	3.3	6.7	42.4	34.1	10.5	2.7	.4	12.3	100.0	1126
1200	2.5	6.8	41.9	33.7	11.0	3.6	.6	12.7	100.0	2250
1800	2.4	7.6	43.1	36.0	8.7	1.7	.9	12.0	100.0	1178
TOT	100	431	2704	2153	649	163	34	12.3		6346
PCT	3.0	7.1	42.6	33.9	10.2	2.6	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.0	2.7	2.1		4.0
NE	6.0	2.0	4.3	5.8		4.2
E	3.4	.9	2.3	4.7		3.1
SE	3.1	1.5	3.6	4.3		3.2
S	6.1	1.7	2.3	4.3		4.1
SW	8.0	2.0	2.7	3.4		3.3
W	3.6	1.0	1.0	.9		2.7
NW	2.6	.7	1.9	.8		3.3
VAR	.0	.0	.0	.0		.0
CALN	1.7	.1	.2	1.2		3.6
TOT OBS	424	114	224	287	1049	4.1
TOT PCT	40.4	10.9	21.4	27.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.4	1.0	1.1	.5	.8	.6	.4	.0	.1	.0	.6	6.6
NE	.8	2.0	2.3	1.3	2.2	.9	1.0	.2	.3	.3	12.8	
E	.6	1.0	1.2	.8	2.8	.5	.7	.1	.0	.2	5.5	
SE	.5	.0	.0	1.0	2.2	2.0	.3	.2	.2	.1	6.3	
S	.5	.0	.2	1.1	1.3	1.6	.1	.0	.4	.0	9.0	
SW	.8	2.0	2.3	1.3	1.1	.8	.7	.0	.3	.1	11.2	
W	.0	.0	.0	.2	.7	.1	.1	.1	.0	.0	3.1	
NW	.1	1.0	.0	.1	.8	.2	.0	.1	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALN	.5	.0	.0	.2	.6	.0	.0	.0	.0	.0	2.0	
TOT OBS	43	0	13	68	133	70	35	7	14	8	638	1049
TOT PCT	4.1	0	1.2	6.3	12.7	6.7	3.3	.7	1.3	.8	62.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	CEILING (FEET)	>10	>5	>2	VSBY (NM)	>1	>1/2	>1/4	>5000	>0
>4800	1.5	1.8	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3600	2.0	2.4	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>2400	4.0	5.3	5.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>1800	7.7	11.6	12.3	12.8	12.8	12.8	12.8	12.8	12.8	12.8
>1000	13.1	22.0	24.8	25.3	25.3	25.3	25.3	25.3	25.3	25.3
>600	16.5	27.2	30.9	31.7	31.8	31.8	31.8	31.8	31.8	31.8
>300	17.1	28.3	32.2	32.9	33.0	33.0	33.0	33.0	33.0	33.0
>150	17.1	28.3	32.2	32.9	33.0	33.0	33.0	33.0	33.0	33.0
>0	17.2	28.6	33.0	34.4	34.6	34.6	34.6	34.6	34.6	34.6
TOTAL	180	299	343	389	362	374	389	394	394	394

TOTAL NUMBER OF OBS: 1049

PCT FREQ NM <5/8: 62.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
27.7	19.2	8.6	7.5	4.4	3.9	6.4	5.9	19.3	3.0	1104

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.55 52.84

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.5	
	NO PCP	.6	.4	.9	.2	.3	.5	.2	.1	.0	.3	3.0	
	TOT %	.6	.7	.9	.2	.3	.7	.2	.1	.0	.3	3.4	
1/2<1	PCP	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	.7	
	NO PCP	.1	.2	.1	.1	.2	.1	.0	.1	.0	.0	.9	
	TOT %	.1	.3	.3	.3	.4	.2	.0	.1	.0	.0	1.6	
1<2	PCP	.0	.1	.1	.1	.3	.1	.1	.0	.0	.1	.7	
	NO PCP	.1	.2	.2	.1	.1	.1	.0	.1	.0	.0	.7	
	TOT %	.1	.3	.2	.1	.4	.2	.1	.1	.0	.1	1.5	
2<5	PCP	.1	.4	.3	.4	.3	.1	.1	.1	.0	.3	2.2	
	NO PCP	.2	1.2	.5	.5	.5	.3	.1	.1	.0	.1	3.4	
	TOT %	.4	1.5	.8	.9	.7	.3	.3	.2	.0	.4	5.5	
5<10	PCP	.2	.8	.7	.2	.2	.3	.1	.0	.0	.0	2.5	
	NO PCP	2.7	5.9	2.9	3.7	3.3	4.4	1.9	1.4	.0	.6	26.9	
	TOT %	2.8	6.8	3.6	4.0	3.5	4.4	2.0	1.4	.0	.6	29.4	
10+	PCP	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	9.3	11.1	6.4	4.5	9.3	9.7	4.8	3.4	.0	1.6	58.2	
	TOT %	9.3	11.1	6.5	4.6	9.4	9.9	4.8	3.4	.0	1.6	58.6	
TOT OBS													1757
TOT PCT		9.3	20.6	11.9	12.0	14.7	15.9	7.3	5.3	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.1	.1	.0	.0	.1	.0	.0	.1	.0	.2	.7	
	4-10	.3	.4	.1	.1	.1	.2	.1	.1	.0	.0	1.5	
	11-21	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.4	.6	.3	.2	.4	.3	.1	.2	.0	.2	3.0	
1/2<1	0-9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	.4	
	22+	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.1	.4	.3	.2	.3	.1	.0	.0	.0	.0	1.4	
1<2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	.1	.1	.2	.2	.1	.0	.0	.0	.8	
	11-21	.1	.3	.1	.1	.1	.0	.0	.0	.0	.0	.7	
	22+	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.5	
	TOT %	.2	.5	.3	.3	.3	.3	.1	.1	.0	.1	2.1	
2<5	0-9	.1	.1	.1	.1	.0	.0	.0	.0	.0	.3	.8	
	4-10	.3	.8	.5	.5	.2	.2	.2	.1	.0	.0	2.6	
	11-21	.1	.7	.4	.4	.3	.1	.1	.0	.0	.0	2.1	
	22+	.0	.2	.2	.2	.2	.1	.1	.0	.0	.0	1.1	
	TOT %	.5	1.9	1.2	1.2	.7	.4	.4	.2	.0	.3	6.6	
5<10	0-9	.2	.3	.2	.2	.2	.2	.2	.1	.0	.3	1.8	
	4-10	1.4	2.1	1.6	1.4	1.3	1.0	.7	.6	.0	.0	10.1	
	11-21	.7	2.9	1.3	1.3	1.2	1.3	.4	.4	.0	.0	9.9	
	22+	.2	.7	.2	.2	.4	.9	.2	.1	.0	.0	2.9	
	TOT %	2.4	6.0	3.2	3.3	3.0	3.5	1.3	1.2	.0	.3	24.7	
10+	0-9	.3	1.2	.4	.7	.4	.3	.3	.3	.0	1.3	6.2	
	4-10	3.1	4.6	4.5	4.7	3.6	3.4	1.8	1.8	.0	.0	27.8	
	11-21	1.6	3.3	2.0	3.1	4.9	5.3	1.9	1.0	.0	.0	23.3	
	22+	.2	.5	.1	.3	1.2	1.5	.4	.5	.0	.0	4.9	
	TOT %	5.3	9.6	7.3	8.8	10.1	10.9	4.6	3.7	.0	1.3	62.2	
TOT OBS													2916
TOT PCT		9.1	19.3	12.5	13.8	14.8	15.7	6.7	5.5	.0	2.6	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

AREA 0012 BUENOS AIRES
34.51 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	15C 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
0000	5.0	.0	1.2	4.1	8.7	6.6	2.9	.0	.8	.4	29.9	70.1	241													
0600	9.1	.0	1.4	5.0	11.8	5.5	3.6	1.4	.5	1.8	40.0	60.0	220													
1200	2.3	.0	.8	7.4	15.0	6.5	3.4	1.1	.8	.6	38.0	62.0	353													
1800	1.9	.0	1.3	6.6	11.0	6.6	2.5	.0	2.5	.3	32.7	67.3	318													
TOT	46	0	13	68	135	72	35	7	14	8	398	794	1132													
PCT	4.1	.0	1.1	6.0	11.9	6.4	3.1	.6	1.2	.7	35.2	64.8	100.0													

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-4	5-10	10+	TOTAL OBS
0000	3.6	.8	1.1	6.2	27.7	60.7	730
0600	4.2	1.2	2.0	9.5	25.5	57.6	589
1200	2.5	2.0	3.1	5.5	24.2	62.7	946
1800	2.6	1.5	1.9	5.9	21.4	66.7	681
TOT	95	42	62	193	727	1829	2946
PCT	3.2	1.4	2.1	6.6	24.7	62.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<150 <500	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	5.1	7.1	16.3	21.4	62.2	196
0600	10.7	13.1	24.3	21.4	54.4	206
1200	2.7	3.9	16.9	26.1	57.0	337
1800	2.6	3.9	16.6	18.3	63.1	306
TOT	49	72	196	230	619	1049
PCT	4.7	6.9	18.8	22.0	59.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.2	.2	.0	.5	1.2	1.4	.0	33	3.8
66/66	.0	.0	.1	.9	1.8	3.7	5.4	.0	161	17.4
69/69	.0	.0	.1	1.2	3.0	6.8	15.1	18.9	363	39.2
70/64	.0	.0	.1	1.2	2.4	4.8	12.2	11.4	298	31.8
71/69	.0	.0	.0	.0	1.2	1.6	3.0	.0	69	7.4
72/64	.0	.0	.0	.0	.0	.0	.3	.1	4	.4
TOTAL	0	2	3	32	78	159	333	318	927	100.0
PCT	.0	.2	.3	3.5	8.4	17.2	35.9	34.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	1.8	1.2	.0	.0	.4	.2	.2	.0	.0	.0
66/66	2.7	4.9	2.4	2.1	1.7	1.4	1.1	.0	.0	.0
69/69	3.2	8.0	6.3	6.1	5.1	4.4	2.3	2.6	.0	1.3
70/64	2.0	3.6	4.3	3.3	3.9	6.7	2.3	1.3	.0	.4
71/69	.7	.2	.2	.7	2.2	2.5	.3	.4	.0	.0
72/64	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2
TOTAL	10.1	17.9	13.2	14.1	15.2	14.7	6.8	5.6	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	71	64	62	55	47	44	36	54.6	1776
0600	72	66	62	54	47	44	41	56.4	1121
1200	72	68	65	56	48	45	42	56.4	2100
1800	74	69	66	57	48	46	43	57.3	1134
TOT	74	68	64	55	47	45	36	55.7	6217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.4	7.4	17.1	33.8	40.2	84	216		
0600	.0	2.9	5.4	16.1	32.7	42.9	86	205		
1200	.0	5.9	6.4	14.7	27.6	33.2	83	206		
1800	.0	5.3	11.8	21.0	39.1	22.7	81	208		
TOT	0	39	79	162	341	326	84	945		

SEPTEMBER

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1855-1973

TABLE 17

AREA 0012 BUENOS AIRES
34.35 52.8W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	TOT	W FOG	WO FOG
44	48	52	56	60	64	68	72				
17/19	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
11/13	.0	.0	.0	.0	.2	.2	.2	.1	17	.1	1.0
9/10	.0	.0	.0	.1	1.2	.6	.1	.0	33	.1	2.0
7/8	.0	.0	.0	1.2	1.0	1.6	.2	.2	69	.2	4.0
6	.0	.0	.1	.7	1.0	.6	.2	.0	44	.2	2.5
5	.0	.0	.8	1.5	1.8	1.4	.1	.0	92	.3	5.2
4	.0	.1	1.2	2.1	3.0	1.2	.1	.0	126	.3	7.3
3	.3	.1	1.2	2.6	3.3	.7	.2	.0	130	.4	7.6
2	.0	.6	1.8	3.7	4.4	1.2	.4	.1	198	.7	11.5
1	.0	.2	2.2	4.3	2.9	.6	.2	.0	173	.7	9.9
0	.1	1.2	2.2	4.4	1.4	.6	.2	.0	163	.9	9.1
-1	.1	.2	2.2	3.5	1.2	.3	.1	.0	123	.4	7.2
-2	.1	1.6	2.6	2.1	.9	.6	.1	.0	129	.2	7.7
-3	.0	.4	1.2	1.0	.9	.3	.1	.0	62	.1	3.8
-4	.0	1.1	1.4	1.2	.7	.4	.2	.0	81	.2	4.7
-5	.0	.4	1.2	1.0	.7	.2	.1	.0	36	.1	3.3
-6	.1	.3	.6	.3	.4	.1	.0	.0	36	.1	2.1
-7/-8	.1	.7	.6	.6	.4	.0	.0	.0	38	.0	2.3
-9/-10	.0	.4	.3	.4	.1	.0	.0	.0	23	.0	1.4
-11/-12	.1	.6	.2	.2	.0	.0	.0	.0	20	.1	1.2
-13/-16	.1	.2	.1	.0	.0	.0	.0	.0	7	.0	.4
TOTAL	10	136	304	419	176	7	1623		86	1957	
PCT	.6	8.4	20.2	31.1	25.8	10.8	2.6	.4	100.0	5.3	94.7

PERIOD: (OVER-ALL) 1943-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.8	1.1	.0	.0	.0	.0	1.9	1.2	1.9	.0	.0	.0	.0	3.2
1-3	.0	1.5	.4	.0	.0	.0	1.9	.2	3.7	1.8	.0	.0	.0	7.6
3-6	.0	1.8	.6	.0	.0	.0	2.3	.0	2.2	2.3	.0	.0	.0	4.7
6-9	.0	.2	.8	.0	.0	.0	1.0	.0	.3	4.1	.3	.0	.0	4.8
9-12	.0	.0	.4	.1	.0	.0	.6	.0	.0	.3	.3	.0	.0	1.1
10-11	.0	.0	.2	.2	.0	.0	.3	.0	.0	.3	.3	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.4	2.8	.3	.0	.0	7.9	1.4	10.1	9.9	2.1	.2	.0	23.7

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	2.1	.0	.0	.0	.0	2.4	.2	.3	.0	.0	.0	.0	.7
1-3	.0	2.7	1.0	.0	.0	.0	4.1	.0	.6	1.7	.0	.0	.0	2.3
3-6	.0	.4	.8	.0	.0	.0	1.5	.0	1.2	.9	.0	.0	.0	2.1
6-9	.0	.5	.8	.2	.0	.0	1.5	.0	.2	1.4	.2	.0	.0	1.6
9-12	.0	.0	.3	.1	.0	.0	.6	.0	.0	.3	.2	.0	.0	.8
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.7	3.2	.8	.0	.0	10.2	.2	2.7	4.8	.7	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1973

SEPTEMBER
TABLE 18 (CONT)AREA 0012 BUENOS AIRES
34.33 52.8W

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.2	.0	.0	.0	1.4	.2	1.3	.0	.0	.0	.0	1.3	
1-2	.3	1.9	1.7	.0	.0	.0	4.0	.0	2.9	1.4	.0	.0	.0	4.3	
3-4	.0	1.4	1.5	.0	.0	.0	2.9	.0	1.6	3.3	.0	.0	.0	4.9	
5-6	.0	.4	2.6	.1	.0	.0	3.1	.0	.4	1.4	.2	.0	.0	2.0	
7	.0	.0	1.0	.8	.0	.0	1.8	.0	.0	.8	.5	.0	.0	1.3	
8-9	.0	.0	.2	.3	.0	.0	.4	.0	.0	.2	.4	.0	.0	.6	
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.2	.6	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.0	7.4	1.8	.0	.0	14.4	.2	6.2	7.6	2.4	.1	.0	16.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.1	.0	.0	.0	.8	.3	.2	.0	.0	.0	.0	.6	
1-2	.1	1.0	.3	.0	.0	.0	1.7	.2	1.0	.2	.0	.0	.0	1.3	
3-4	.0	.2	1.0	.0	.0	.0	1.2	.0	1.4	1.2	.2	.0	.0	2.7	
5-6	.0	.3	1.2	.0	.0	.0	1.4	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.6	.2	.0	.0	.7	.0	.0	.6	.3	.0	.0	.3	
8-9	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.7	.2	.0	.8	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.1	3.4	1.1	.6	.0	7.3	.3	2.6	2.0	.8	.0	.0	6.0	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	8.8	9.1	.3	.0	.0	.0	18.3	623
1-2	1.6	17.2	8.7	.0	.0	.0	17.4	
3-4	.0	10.0	11.9	.2	.0	.0	22.0	
5-6	.0	2.2	13.0	.8	.0	.0	16.1	
7	.0	.2	4.2	2.9	.0	.0	7.2	
8-9	.0	.0	1.4	1.9	.2	.0	3.5	
10-11	.0	.0	1.0	2.4	.2	.0	3.6	
12	.0	.0	.0	.6	.3	.0	.8	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.3	.0	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.4	26.7	40.8	9.3	.8	.0	100.0	

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	13.4	12.7	5.4	1.7	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	370	3
6-7	.2	1.1	5.2	6.7	3.8	1.3	1.2	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	197	5
8-9	.1	.1	1.9	4.4	2.7	2.0	1.1	.3	.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	127	7
10-11	.0	.0	.1	1.1	1.4	.8	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
12-15	.0	.0	.0	.4	.3	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
15-19	.0	.0	.0	.0	.6	.3	.6	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	8
INDET	4.8	3.5	4.2	3.7	1.1	.9	.4	.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	188	4
TOTAL	95	168	257	214	110	69	48	14	12	3	2	0	0	0	0	0	0	0	0	969	4
PCT	9.8	17.0	24.5	22.1	11.4	7.1	5.0	1.4	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	.9	3.3	.0	.0	.0	.0	7.1	.0	2.0	10.3	.5	.7	.0	79.2
NE	5.7	.7	2.8	.0	.0	.0	.0	9.2	1.4	1.8	10.8	.4	1.2	.0	75.8
E	6.3	.0	4.0	.0	.0	.0	.0	9.6	2.3	.0	5.0	1.0	2.2	.0	79.9
SE	2.9	.5	2.6	.0	.0	.0	.0	6.0	1.0	.5	2.2	.3	1.1	.0	88.9
S	3.7	1.6	.9	.0	.0	.0	.0	6.3	1.5	.4	3.3	.0	.8	.0	87.7
SW	1.5	1.2	1.0	.0	.0	.0	.0	3.2	1.0	1.1	5.2	.0	1.0	.0	88.9
W	1.5	1.5	.8	.0	.0	.0	.0	3.8	.0	.0	8.5	.0	2.1	.0	85.6
NW	3.3	2.4	.8	.0	.0	.0	.0	6.5	1.1	2.4	9.2	.0	.0	.0	80.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	15.6	.0	.0	.0	82.2
TOT PCT	3.8	.9	2.2	.0	.0	.0	.0	6.7	1.3	.9	6.8	.3	1.2	.0	83.0
TOT OBS:	1514														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST	NO SIG WEA
0000	3.7	.6	2.3	.0	.0	.0	.0	6.0	.9	2.3	4.3	.0	.6	.0		86.3
0600	4.3	1.2	2.2	.0	.0	.0	.0	7.8	.6	2.2	5.6	.0	1.6	.0		82.6
1200	3.9	1.2	2.0	.0	.0	.0	.0	6.9	1.2	.0	8.4	.8	1.2	.0		81.7
1800	3.3	.5	2.3	.0	.0	.0	.0	6.0	2.3	.0	6.3	.5	1.3	.0		81.4
TOT PCT TOT OBS	3.8	.9	2.2	.0	.0	.0	.0	6.7	1.3	1.0	6.9	.3	1.2	.0		82.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.3	3.4	.8	.1	.0		9.4	11.7		8.0	9.2	8.8	11.2	11.1	10.2	8.3	7.2
NE	1.3	7.2	7.9	1.4	.3	.0		18.2	12.4		18.7	20.3	20.2	17.4	15.9	18.8	19.3	17.7
E	.9	6.8	5.1	1.2	.2	.0		14.3	11.6		15.6	14.7	12.6	14.0	13.7	13.3	14.7	16.7
SE	1.1	7.6	4.6	1.1	.2	.0		14.4	11.0		15.4	15.8	15.0	15.8	13.7	13.6	13.0	15.6
S	1.1	6.6	6.0	1.9	.4	.0		16.0	12.8		17.9	16.4	14.2	15.3	14.6	18.0	14.9	19.2
SW	.7	4.4	4.7	2.2	.8	.3		13.2	16.1		12.9	11.4	13.9	12.1	13.4	13.6	14.9	13.0
W	.6	2.4	1.3	.6	.5	.0		5.7	13.6		4.7	3.7	5.6	5.2	6.8	7.6	5.7	4.3
NW	.3	2.7	1.8	.6	.2	.0		5.8	11.9		3.8	4.5	6.8	5.1	7.8	7.0	4.8	3.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0		3.1	4.1	4.2	3.6	3.3	1.9	3.9	.7
TOT OBS	613	2587	2162	809	161	27	6161		12.2		1040	808	648	418	1067	1091	884	409
TOT PCT	10.0	42.0	35.1	9.9	2.6	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 02					06 09	12 13	18 21		
N	2.4	4.8	1.7	.3	.0			9.4	11.7	8.5	9.8	10.6	8.0	
NE	4.1	9.2	4.0	.6	.1			18.2	12.4	19.4	19.1	16.3	18.8	
E	3.7	7.3	2.7	.4	.0			14.3	11.6	15.2	13.2	13.3	13.9	
SE	4.1	7.3	2.4	.4	.1			14.4	11.0	15.6	14.6	13.6	14.0	
S	3.6	7.8	3.7	.9	.1			16.0	12.8	17.2	14.7	15.3	16.9	
SW	2.6	5.3	3.4	1.4	.5			13.2	16.1	12.2	12.2	13.3	14.2	
W	1.8	2.1	.9	.8	.2			5.7	13.6	4.3	3.4	7.2	3.2	
NW	1.8	2.1	1.0	.3	.6			5.8	11.9	4.1	6.1	7.4	3.1	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	3.2	3.9	2.5	2.8	
TOT OBS	1677	2891	1223	302	68	6161			12.2	1848	1066	2158	1089	
TOT PCT	27.2	46.9	19.9	4.9	1.1			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1969-1973
(OVERALL) 1953-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CNT)

	WIND CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									PRES	DBS
0000Z	3.3	0.1	39.9	37.8	9.8	2.4	.4	12.4	100.0	1948
0400Z	3.0	7.0	38.0	37.1	10.4	2.7	.3	12.3	100.0	1948
1200Z	2.3	7.9	43.2	31.4	9.7	3.1	.3	12.0	100.0	2130
1800Z	2.8	5.6	43.1	35.9	10.2	1.9	.4	12.3	100.0	1907
TOT	190	423	2587	2162	609	101	27	12.2		6101
PCT	3.1	6.9	42.0	35.1	9.9	2.0	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL DBS	MEAN CLOUD COVER
N	4.0	1.3	1.4	2.9		4.0
NE	7.5	2.0	3.3	5.7		4.1
E	3.0	2.5	3.7	4.8		4.3
SE	4.1	2.1	2.3	3.5		4.4
S	5.3	2.2	3.1	2.0		3.6
SW	5.9	2.2	4.4	2.3		3.8
W	3.6	.9	1.9	.8		3.6
NW	2.3	1.0	1.3	1.5		4.2
VAR	.0	.0	.0	.0		.0
CALM	1.4	.3	.3	.7		3.3
TOT DBS	373	190	212	237	974	4.0
TOT PCT	38.3	19.4	21.8	24.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CLOUD HEIGHTS (FT, MM >4/8) AND OCCURRENCE OF NO CLOUDS BY WIND DIRECTION

	0-2	3-4	5-7	8-10	11-21	22-33	34-47	48+	MEAN	TOTAL DBS
N	.7	.0	.2	.0	.7	.8	.2	.1	.2	6.1
NE	1.2	.3	.5	1.4	1.2	1.2	.5	.0	.0	12.4
E	.9	.1	.4	1.5	1.4	.8	.9	.1	.2	19.0
SE	.1	.0	.1	.6	1.3	1.1	.7	.1	.0	7.9
S	.2	.1	.1	.3	1.7	.6	.7	.1	.1	8.3
SW	.4	.0	.0	.7	1.9	1.4	.6	.1	.2	9.4
W	.1	.0	.0	.3	.9	.9	.1	.1	.0	4.2
NW	.4	.0	.0	.3	.8	.7	.2	.0	.0	3.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.4	.0	.0	.2	.6	.2	.0	.0	.0	2.2
TOT DBS	44	4	13	37	104	74	31	8	7	428
TOT PCT	4.3	.4	1.3	3.9	10.7	7.6	3.2	.8	.7	64.3

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >4/8) AND VSBY (MM)

CEILING (FEET)	>10	>20	>30	>40	>50	>60	>70	>80	>90
>10	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>20	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>30	3.3	4.4	4.7	5.0	5.1	5.1	5.1	5.1	5.1
>40	8.1	11.1	12.1	12.3	12.6	12.6	12.4	12.6	12.6
>50	12.9	19.7	22.2	23.0	23.3	23.3	23.3	23.3	23.3
>60	18.1	24.4	27.6	28.6	29.0	29.1	29.1	29.1	29.1
>70	18.2	23.2	28.3	29.7	30.3	30.4	30.4	30.4	30.4
>80	18.2	23.4	28.9	30.1	30.7	30.8	30.8	30.8	30.8
>90	18.2	23.6	29.9	31.6	32.3	33.4	34.7	35.1	35.1
TOTAL	182	233	298	313	324	333	346	350	350

TOTAL NUMBER OF DBS: 997

PCT FREQ MM <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL DBS
	24.7	14.1	9.6	8.2	6.6	4.3	3.7	6.3	16.6	3.8	1078

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1955-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.7	1.0	.3	.0	.3	.3	.4	.5	.0	.4	3.9	
	TOT %	.7	1.1	.6	.0	.3	.3	.4	.5	.0	.4	4.2	
1/2<1	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.1	.2	.0	.0	.2	.1	.1	.0	.1	.8	
	TOT %	.0	.1	.3	.1	.0	.2	.1	.1	.0	.1	1.1	
1<2	PCP	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	.0	.2	.0	.0	.0	.1	.1	.0	.0	.0	.4	
	TOT %	.2	.4	.1	.1	.1	.1	.2	.0	.0	.0	1.3	
2<5	PCP	.1	.4	.6	.1	.2	.0	.1	.0	.0	.0	1.7	
	NO PCP	.3	.8	.6	.3	.4	.3	.3	.4	.0	.0	3.4	
	TOT %	.3	1.2	1.2	.5	.6	.3	.3	.4	.0	.0	5.0	
5<10	PCP	.3	.9	.4	.2	.5	.2	.1	.2	.0	.0	2.8	
	NO PCP	1.8	5.2	4.6	3.6	3.6	2.8	1.7	.7	.0	.3	24.3	
	TOT %	2.1	6.0	5.0	3.9	4.2	3.0	1.8	1.0	.0	.3	27.2	
10+	PCP	.0	.2	.1	.1	.0	.0	.0	.1	.0	.0	.7	
	NO PCP	5.7	9.7	9.1	8.2	8.8	9.2	3.7	4.0	.0	2.2	50.5	
	TOT %	5.8	9.9	9.2	8.3	8.8	9.3	3.7	4.1	.0	2.2	51.2	
TOT OBS													1512
TOT PCT		9.1	18.7	16.4	12.9	14.0	13.3	6.4	6.1	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.0	.1	.1	.1	.0	.0	.3	.8	
	4-10	.3	.6	.1	.2	.2	.2	.2	.2	.0	.0	1.9	
	11-21	.2	.3	.1	.0	.2	.0	.0	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	.9	.4	.2	.3	.3	.3	.3	.0	.3	3.8	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.2	.0	.2	.0	.0	.0	.1	1.0	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	.0	.1	.1	.0	.0	.4	
	11-21	.1	.4	.3	.1	.1	.1	.0	.0	.0	.0	1.0	
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.5	.4	.2	.2	.1	.1	.1	.0	.0	1.9	
2<5	0-3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	4-10	.2	.3	.2	.3	.2	.1	.1	.2	.0	.0	1.6	
	11-21	.2	.7	.2	.3	.3	.1	.1	.0	.0	.0	2.2	
	22+	.2	.4	.2	.1	.1	.1	.1	.1	.0	.0	1.3	
	TOT %	.6	1.5	1.1	1.0	.7	.4	.3	.3	.0	.0	5.4	
5<10	0-3	.2	.3	.1	.2	.1	.0	.1	.0	.0	.4	1.3	
	4-10	.7	1.8	1.4	1.7	1.1	.8	.3	.4	.0	.0	8.6	
	11-21	.9	3.1	2.1	1.2	1.9	1.2	.3	.4	.0	.0	11.0	
	22+	.1	.3	.4	.4	.4	.8	.6	.1	.0	.0	3.6	
	TOT %	2.1	5.7	4.1	3.6	3.3	2.8	1.4	.9	.0	.4	26.4	
10+	0-3	.3	1.2	.3	.3	.9	.3	.4	.3	.0	2.1	7.0	
	4-10	3.0	4.9	4.7	4.8	4.4	3.3	1.3	1.4	.0	.0	26.9	
	11-21	2.0	3.0	3.2	3.2	4.0	4.2	1.0	1.2	.0	.0	23.8	
	22+	.2	.3	.3	.3	1.4	1.8	.6	.4	.0	.0	5.7	
	TOT %	5.7	10.3	8.9	9.0	10.6	9.3	3.4	3.3	.0	2.1	63.4	
TOT OBS													2427
TOT PCT		9.1	19.3	19.1	13.8	15.3	13.3	3.6	3.2	.0	3.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1855-1973AREA 0012 BUECK'S AIRES
34.45 52.7M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 309	600 999	1000 1099	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	4.1	.9	.0	4.5	10.9	5.0	2.7	.0	.9	.0	29.0	71.0	221
0600	4.7	.5	1.9	4.2	9.9	7.1	5.7	.5	.0	.5	34.9	65.1	212
1200	4.1	.0	1.9	7.0	11.4	8.6	1.3	1.3	1.3	.6	37.5	62.5	315
1800	4.2	.4	1.1	6.0	9.1	7.7	9.5	1.1	.4	.4	39.7	60.3	285
TOT	44	4	13	38	107	75	32	8	7	4	352	681	1093
PCT	4.3	.4	1.3	5.6	10.4	7.3	3.1	.8	.7	.4	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	2.5	1.0	1.9	6.7	20.1	69.9	720
0600	3.3	1.0	2.9	6.7	24.1	62.1	522
1200	4.3	1.3	1.6	6.2	29.8	62.8	635
1800	5.1	1.0	1.9	5.1	24.5	62.4	586
TOT	101	29	53	191	699	1680	2671
PCT	3.8	1.1	2.0	5.6	24.7	62.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 VSBY	<1000 CEILING	<1000 VSBY	1000+ AND/OR	NM <5/8 AND 5+	TOTAL OBS
0000	4.3	3.8	14.4	17.8	67.8	208
0600	4.3	4.8	17.4	19.8	62.8	207
1200	4.3	6.9	19.0	21.6	59.3	305
1800	4.3	6.9	18.1	18.8	63.2	277
TOT	43	66	174	196	627	997
PCT	4.3	6.6	17.8	19.7	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.8	.0	.0	2	.2
70/74	.0	.0	.1	.1	.7	.6	.8	.3	26	2.7
65/69	.0	.0	.4	1.3	2.7	5.7	4.8	.0	142	14.9
60/64	.0	.0	.2	.8	4.0	6.5	11.3	11.1	317	32.3
55/59	.0	.0	.0	.8	2.8	6.5	14.1	9.1	319	32.5
50/54	.0	.0	.0	.4	2.5	3.1	5.5	2.7	185	18.2
45/49	.0	.0	.0	.0	.4	.6	.7	.5	23	2.1
TOTAL	0	0	5	23	113	179	363	271	982	100.0
PCT	.0	.0	.3	2.4	11.9	18.8	38.1	28.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.7	.8	.3	.1	.0	.2	.2	.3	.0	.1
65/69	2.8	4.6	2.4	1.6	.0	.8	1.2	.0	.0	.2
60/64	3.8	6.1	6.7	2.9	2.1	3.1	1.8	2.0	.0	.7
55/59	.0	4.9	6.3	5.4	2.7	5.7	2.1	2.0	.0	.5
50/54	.7	1.1	.5	2.1	2.9	3.7	.9	.4	.0	.1
45/49	.0	.0	.2	.4	.9	.6	.0	.0	.0	.0
TOTAL	9.0	19.3	16.3	12.5	14.2	14.1	5.9	5.9	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	79	69	64	58	49	44	37	57.9	1840
0600	72	67	63	57	48	43	45	57.1	1072
1200	79	72	68	60	51	47	45	60.0	2092
1800	78	72	70	61	52	48	45	60.9	1048
TOT	79	71	68	59	50	46	37	59.0	6032

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.2	8.5	20.6	38.9	30.8	84	247		
0600	.0	1.5	8.4	14.4	39.1	36.6	83	202		
1200	.0	3.7	11.7	19.0	28.0	27.7	82	300		
1800	.0	4.3	18.3	20.9	37.8	19.7	80	230		
TOT	0	27	115	165	376	276	63	979		

OCTOBER

PERIOD: (PRIMARY) 1909-1973
(OVER-ALL) 1855-1973

TABLE 17

AREA 0012 BUENOS AIRES
34.4S 52.7WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.3	.1	.1	.0	.0	6	.0	.4
11/13	.0	.0	.0	.0	.1	.1	.2	.2	.4	.0	.1	13	.1	.9
9/10	.0	.0	.0	.0	.1	.4	.6	.5	.3	.1	.0	27	.1	1.9
7/8	.0	.0	.0	.1	.1	.1	1.3	1.1	.3	.1	.0	42	.1	2.9
6	.0	.0	.0	.0	.2	.1	1.4	.7	.7	.0	.0	41	.5	2.5
5	.0	.0	.0	.0	.4	.3	.9	1.0	.4	.1	.0	43	.3	2.8
4	.0	.0	.1	.1	.7	1.7	1.7	1.5	.3	.1	.0	85	.4	5.8
3	.0	.0	.0	.3	.7	1.7	2.7	.9	.1	.0	.0	89	.6	5.9
2	.0	.0	.0	.4	1.4	2.8	2.5	1.4	.3	.0	.0	118	.2	8.4
1	.0	.0	.1	.1	1.8	3.6	2.8	1.3	.2	.0	.0	136	.7	9.2
0	.0	.0	.1	.7	3.3	5.2	2.8	1.1	.2	.0	.0	189	.9	12.6
-1	.0	.0	.1	.4	2.7	2.8	2.6	.9	.1	.0	.0	138	.7	9.3
-2	.0	.0	.1	1.6	2.7	3.1	1.7	.3	.1	.0	.0	132	.9	8.7
-3	.0	.0	.0	.8	2.3	2.4	.5	.4	.0	.0	.0	89	.9	5.5
-4	.0	.0	.3	.9	1.0	1.0	.9	.0	.0	.0	.0	38	.2	4.0
-5	.0	.0	.4	1.0	1.2	1.2	.6	.0	.0	.0	.0	61	.1	4.3
-6	.0	.0	.0	1.0	.9	.5	.1	.0	.0	.0	.0	34	.1	2.3
-7/-8	.0	.1	.2	.9	1.2	.7	.1	.0	.0	.0	.0	44	.2	3.0
-9/-10	.0	.0	.1	.2	.9	.3	.0	.0	.0	.0	.0	17	.0	1.2
-11/-13	.0	.1	.1	.2	.4	.1	.0	.0	.0	.0	.0	11	.1	.7
-14/-16	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	3	.0	.2
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	24	121	303	386	197	6	6	.1	2	1379	100	1275
PCT	.1	.1	1.7	8.8	22.2	28.1	23.6	11.4	3.4	.4	.1	100.0	7.3	92.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	.4	.0	.0	.0	.0	.8	.9	1.1	.0	.0	.0	.0	2.0
1-2	.0	2.8	1.0	.0	.0	.0	3.0	.0	3.3	1.4	.0	.0	.0	4.9
3-4	.0	1.7	1.3	.0	.0	.0	2.3	.0	1.1	3.3	.3	.0	.0	7.1
5-6	.0	.2	.4	.2	.0	.0	.8	.0	.4	2.6	.7	.0	.0	3.7
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	1.2	.9	.0	.0	2.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.7	.4	.0	.0	1.1
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.4	3.4	.7	.0	.0	7.8	.9	6.1	11.4	2.3	.0	.0	20.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.6	1.3	.0	.0	.0	.0	2.1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.0	2.0	2.1	.0	.0	.0	4.0	.4	2.7	1.1	.0	.0	.0	4.2
3-4	.0	1.1	2.9	.2	.0	.0	4.2	.0	.3	1.9	.1	.0	.0	2.4
5-6	.0	.0	1.8	.2	.0	.0	2.0	.0	.8	1.3	.7	.0	.0	3.1
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.4	.4	.0	.0	.7	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.6	7.3	1.7	.4	.0	14.6	.7	5.1	5.2	1.2	.2	.0	12.3

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0012 BUENOS AIRES
34.45 52.7M

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.6	.9	.0	.0	.0	.0	1.5	.5	.8	.0	.0	.0	.0	1.1
1-2	.0	1.9	.5	.0	.0	.0	2.4	.0	1.8	.3	.0	.0	.0	2.1
3-4	.0	1.0	1.9	.0	.0	.0	2.9	.0	1.5	1.8	.0	.0	.0	3.3
5-6	.0	.2	1.3	.9	.0	.0	2.4	.0	.0	1.2	.2	.0	.0	1.4
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.8	.8	.0	.0	2.6
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.7	.2	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	.2	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.1	4.3	1.1	.0	.0	10.1	.5	4.3	5.7	2.1	.4	.0	12.8

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.6	1.6	.0	.0	.0	.0	2.2	.4	1.6	.0	.0	.0	.0	2.2	
1-2	.0	1.3	.2	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.4	1.1	.0	.0	.0	2.3	.0	.7	1.0	.2	.0	.0	1.9	
5-6	.0	.2	.5	.0	.0	.0	.7	.0	.1	.2	.0	.0	.0	.3	
7	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.2	.0	.0	.2	
8-9	.0	.0	.6	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.1	.0	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.6	2.1	2.1	.6	.0	9.1	.6	3.1	1.2	.9	.0	.0	5.9	93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
41	11.1	9.0	.0	.0	.0	.0	20.1	
1-2	.4	16.0	6.6	.0	.0	.0	23.0	
3-4	.0	7.0	17.3	2.1	.0	.0	26.5	
5-6	.0	1.8	9.4	2.9	.0	.0	14.2	
7	.0	.0	4.3	3.1	.0	.0	7.4	
8-9	.0	.2	1.4	2.1	.2	.0	3.9	
10-11	.0	.0	.2	1.6	.2	.0	2.1	
12	.0	.0	.2	.2	.2	.0	.6	
13-16	.0	.0	.4	.8	.0	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.2	.2	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	34.1	40.3	12.3	1.6	.0	100.0	487

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	4.1	9.3	12.0	4.7	3.5	1.5	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	3
6-7	.0	.8	7.6	9.8	3.7	1.5	1.8	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	6
8-9	.0	.7	1.3	4.4	4.4	1.9	.7	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	6
10-11	.0	.6	.5	.7	.8	.9	.3	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	37	7
12-13	.0	.0	.5	.1	.2	.2	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
313	.0	.0	.0	.1	.2	.2	.5	.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	12
INDET	4.4	2.7	3.6	.8	1.1	.0	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	117	3
TOTAL	78	124	226	179	141	33	36	12	21	8	2	0	1	0	0	0	0	0	0	880	5
PCT	8.5	14.1	25.7	20.3	16.0	6.3	4.1	1.4	2.4	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1860-1975

AREA 0012 BUENOS AIRES
34.42 52.74

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRAIN PCPN	MAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	1.3	.3	.0	.0	.0	.0	4.1	.0	1.1	6.2	.0	2.6	.0	86.1
NE	4.1	1.0	.3	.0	.0	.0	.0	3.6	1.1	1.3	3.7	.0	2.6	.0	86.4
E	4.1	.6	1.3	.0	.0	.0	.0	3.6	.0	.7	3.1	.0	2.3	.0	88.1
SE	1.3	1.2	.6	.0	.0	.0	.0	3.2	.8	1.2	.2	.0	1.8	.0	93.2
S	2.6	1.7	.6	.0	.0	.0	.0	4.3	3.2	.9	1.9	.4	.4	.0	88.9
SW	.3	2.2	.8	.0	.0	.0	.0	3.4	2.7	.8	1.3	.0	.0	.0	91.9
W	3.6	.0	1.2	.0	.0	.0	.0	6.6	4.0	3.2	6.4	.0	.0	.0	81.1
NW	1.7	.0	1.1	.0	.0	.0	.0	2.9	1.1	.0	3.3	.0	.9	.0	89.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	.0	3.4	.0	86.2
TOT PCT	2.8	1.1	.7	.0	.0	.0	.0	4.3	1.3	1.1	3.2	.1	1.7	.0	88.3
TOT OBS: 1979															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRIZ	FRIG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	4.0	.3	.3	.0	.0	.0	.0	3.1	1.9	2.1	2.1	.0	2.1	.0	87.2
0600Z	3.0	2.1	.9	.0	.0	.0	.0	3.9	.9	2.4	3.0	.3	.9	.0	87.2
1200Z	2.3	1.4	.6	.0	.0	.0	.0	3.9	1.2	.0	3.9	.0	1.2	.0	89.7
1800Z	2.9	.2	.7	.0	.0	.0	.0	3.8	1.7	.2	3.4	.0	2.6	.0	88.3
TOT PCT OBS:	3.0	1.1	.7	.0	.0	.0	.0	4.0	1.4	1.1	3.2	.1	1.7	.0	88.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.6	4.2	.7	.1	.0		11.3	11.2		6.9	10.7	10.4	15.3	14.7	12.9	9.3	11.2
NE	1.1	9.4	9.9	1.7	.2	.0		22.4	12.3		24.1	23.1	23.8	21.9	20.6	19.3	22.9	20.7
E	1.1	6.8	4.7	.7	.0	.0		13.3	10.6		17.0	13.3	12.7	13.6	10.9	11.3	13.3	10.4
SE	.7	6.7	5.0	1.1	.2	.0		15.8	11.6		15.3	13.0	13.4	13.6	14.8	11.3	12.3	14.2
S	.6	8.6	6.0	1.9	.4	.0		14.9	13.3		16.4	16.8	14.6	13.9	13.3	12.8	17.4	14.0
SW	.4	3.2	4.0	1.9	.6	.1		10.4	13.6		10.7	8.8	9.1	7.6	9.4	11.8	13.2	11.6
W	.7	2.0	1.4	.8	.2	.0		3.1	13.2		3.3	2.9	3.6	3.9	3.1	8.9	4.7	4.4
NW	.6	3.1	2.1	.6	.1	.0		6.9	11.2		3.8	3.3	3.9	6.9	6.9	8.6	3.2	6.1
VAR	.8	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.0	1.8	3.3	3.2	2.6	2.6	1.7	1.4
TOT OBS	339	2634	2319	387	112	14	4208		12.1		1033	777	664	432	1019	1146	711	422
TOT PCT	8.7	42.4	37.4	9.3	1.8	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	06	12	18
N	3.1	6.0	1.9	.3	.0		11.3	11.2		8.6	12.3	13.8	10.0	
NE	4.8	12.0	3.2	.3	.1		22.4	12.3		24.9	23.8	20.0	22.1	
E	3.8	7.4	1.9	.2	.0		13.3	10.6		15.3	13.0	11.1	14.4	
SE	3.7	7.0	2.6	.3	.0		15.8	11.6		15.3	13.3	13.0	13.0	
S	3.2	6.8	3.9	.9	.1		14.9	13.3		16.4	14.3	13.1	16.1	
SW	2.1	3.6	3.0	1.2	.3		10.4	13.6		9.9	8.3	10.7	12.6	
W	1.7	1.9	.9	.6	.1		3.1	13.2		3.2	4.9	7.1	4.6	
NW	1.9	3.2	1.0	.3	.0		6.9	11.2		4.3	6.3	8.7	3.3	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	2.3						2.3	.0		1.9	3.3	2.6	1.6	
TOT OBS	1698	2980	1271	268	49	6206		12.1		1812	1096	2163	1133	
TOT PCT	26.4	48.0	20.3	4.3	.8		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1969-1973
(COVER-ALL) 1960-1973

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34.45 52.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.9	0.0	41.8	39.3	8.9	1.8	.2	12.2	100.0	1812
0600Z	3.3	5.3	41.3	39.3	8.4	2.0	.2	12.6	100.0	1096
1200Z	2.6	7.0	49.0	34.8	10.3	2.7	.4	12.1	100.0	2165
1800Z	1.8	8.8	43.4	37.2	9.8	1.0	.2	11.9	100.0	1139
TOT	145	394	2834	2819	587	112	15	12.1		8206
PCT	2.3	6.3	42.4	37.4	9.3	1.8	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.1	.8	1.7		3.3
NE	10.9	2.8	4.3	4.0		3.4
E	7.3	2.0	2.3	4.3		3.9
SE	3.9	2.9	4.3	2.4		3.9
S	8.3	2.0	4.9	3.6		4.1
SW	3.9	2.1	3.3	1.8		4.1
W	1.8	.3	.4	.8		3.4
NW	2.2	.9	.4	.8		3.0
VAR	.0	.0	.0	.0		2.5
CALM	1.4	.3	.1	.4		3.7
TOT OBS	444	149	217	209	1013	
TOT PCT	43.8	14.7	21.4	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM) >4/8
AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <3/8 ANY MGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.2	.0	.2	.2	.5	.2	.0	.0	.1	.0	6.4	
.8	.0	.1	.6	2.3	1.1	.5	.0	.3	.3	16.3	
.5	.0	.1	.4	1.3	1.1	1.0	.2	.2	.3	11.7	
.9	.0	.0	.3	2.0	1.0	.9	.2	.1	.1	11.1	
.2	.0	.0	1.4	2.0	1.8	.7	.2	.0	.0	10.6	
.1	.0	.2	.9	1.3	.9	.3	.0	.0	.1	7.3	
.3	.0	.1	.1	.3	.0	.1	.0	.2	.0	2.4	
.0	.0	.2	.1	.2	.0	.2	.0	.1	.1	3.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.1	.0	.0	.1	.0	.0	1.8	
.14	.0	.0	.42	1.03	.64	.39	.7	.11	.9	7.6	1013
1.4	.0	.9	4.1	10.2	6.3	3.8	.7	1.1	.9	70.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>4000	1.3	1.9	1.9	1.9	1.9	1.9	2.0	2.0
>3000	1.9	2.6	2.7	2.8	2.8	2.8	2.9	2.9
>2000	4.3	6.2	6.6	6.7	6.7	6.8	6.9	6.9
>1000	6.3	11.0	12.3	12.7	12.8	12.9	13.1	13.1
>500	14.3	19.8	21.8	22.3	22.7	22.8	23.0	23.0
>200	16.8	23.7	26.0	26.7	26.9	27.0	27.2	27.2
>100	17.2	24.3	26.9	27.6	27.8	27.9	28.1	28.1
>50	17.2	24.3	26.9	27.6	27.8	27.9	28.1	28.1
>0	17.3	24.9	27.7	28.3	28.7	28.9	29.2	29.4
TOTAL	178	256	283	294	296	298	301	303

TOTAL NUMBER OF OBS: 1030

PCT FREQ NH <3/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCO	TOTAL OBS
29.2	16.6	11.7	9.9	4.8	4.6	6.0	6.1	14.0	1.1	1145

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1860-1975

NOVEMBER

AREA 0012 BUENOS AIRES
34.4S 52.7W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.2	.1	.1	.0	.1	.1	.1	.2	.0	.1	.9	
	TOT %	.2	.1	.1	.0	.2	.1	.1	.2	.0	.1	1.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.6	
1<2	PCP	.1	.1	.2	.0	.0	.0	.1	.0	.0	.0	.5	
	NO PCP	.3	.2	.3	.1	.1	.0	.0	.1	.0	.0	1.0	
	TOT %	.4	.3	.5	.1	.1	.0	.1	.1	.0	.0	1.5	
2<5	PCP	.0	.4	.3	.3	.1	.0	.1	.0	.0	.0	1.1	
	NO PCP	.3	1.0	.4	.4	.6	.3	.3	.1	.0	.1	3.5	
	TOT %	.3	1.4	.7	.6	.7	.4	.3	.1	.0	.1	4.6	
5<10	PCP	.2	.7	.2	.1	.2	.2	.0	.1	.0	.0	1.8	
	NO PCP	2.7	4.2	4.3	3.6	3.7	1.9	.8	1.1	.0	.3	24.8	
	TOT %	2.9	4.9	4.7	3.7	3.9	2.0	.9	1.3	.0	.3	26.6	
10+	PCP	.1	.2	.1	.1	.2	.1	.1	.0	.0	.0	.8	
	NO PCP	3.9	14.6	10.1	9.2	9.8	7.3	2.3	3.9	.0	1.4	64.9	
	TOT %	3.9	14.8	10.2	9.3	10.0	7.7	2.6	3.9	.0	1.4	65.8	
TOT OBS													1377
TOT PCT													9.8 23.6 16.3 13.8 15.1 10.1 3.9 5.5 .0 1.8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.1	.1	.1	.0	.1	.1	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.1	.0	.1	.1	.0	.0	.5	
	11-21	.2	.3	.3	.1	.0	.1	.1	.0	.0	.0	1.0	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.4	.4	.1	.1	.1	.1	.1	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.7	.4	.2	.2	.1	.1	.1	.0	.0	2.1	
	11-21	.1	.9	.3	.3	.4	.1	.1	.0	.0	.0	2.6	
	22+	.0	.1	.1	.0	.0	.2	.2	.0	.0	.0	.6	
	TOT %	.5	1.7	.8	.6	.6	.3	.4	.1	.0	.1	5.4	
5<10	0-3	.2	.3	.5	.1	.1	.1	.2	.1	.0	.2	1.6	
	4-10	1.3	2.4	1.4	1.3	.8	.6	.3	.4	.0	.0	8.3	
	11-21	.8	2.6	1.4	1.3	1.7	.7	.1	.3	.0	.0	8.9	
	22+	.1	.2	.4	.3	.6	.4	.2	.0	.0	.0	2.4	
	TOT %	2.3	5.5	3.5	3.1	3.0	2.0	.9	.9	.0	.2	21.4	
10+	0-3	.4	.7	.5	.5	.4	.2	.2	.2	.0	1.3	4.4	
	4-10	4.3	7.7	3.5	3.1	4.7	2.8	1.4	2.3	.0	.0	28.8	
	11-21	2.3	6.9	3.7	3.7	3.1	3.3	.8	1.5	.0	.0	27.6	
	22+	.1	.3	.5	.5	.9	1.3	.3	.1	.0	.0	4.4	
	TOT %	7.1	15.8	10.2	9.8	11.1	8.0	2.7	4.1	.0	1.3	70.1	
TOT OBS													2815
TOT PCT													10.3 23.7 13.0 13.8 13.1 10.7 4.2 3.4 .0 1.6 100.0

NOVEMBER

PERIOD: (PRIMARY) 1909-1975
(OVER-ALL) 1880-1975

AREA 0012 BUENOS AIRES
34.45 52.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 13741	NH <5/8 ANY HGT	TOTAL OBS
00003	3.1	.0	.0	2.6	8.3	3.2	2.6	.9	.4	.9	24.0	76.0	229
06009	.5	.0	.0	9.5	8.2	3.0	3.5	.5	.5	1.4	26.2	73.2	220
12015	1.6	.0	1.3	3.8	9.4	6.3	4.4	.9	.9	.6	29.2	70.8	319
18021	.3	.0	1.6	4.1	11.4	6.6	3.2	.9	1.9	.9	30.9	69.1	317
TOT	14	0	9	43	103	64	42	9	11	10	305	780	1085
PCT	1.3	.0	.8	4.0	9.5	5.9	3.9	.8	1.0	.9	28.1	71.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.7	.3	1.4	3.1	24.3	68.2	787
06009	.6	.6	1.5	6.8	24.3	66.3	331
12015	1.3	.6	2.3	4.7	18.9	72.0	793
18021	.2	.7	1.8	3.8	19.3	72.3	602
TOT	21	14	47	145	372	1854	2693
PCT	.8	.5	1.8	5.5	21.6	69.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH <4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	3.2	3.7	11.9	16.1	72.0	218
06009	.5	1.9	14.2	19.3	66.3	212
12015	1.7	4.0	12.4	20.7	66.9	299
18021	.3	2.0	12.3	21.9	63.8	301
TOT	14	30	130	204	696	1030
PCT	1.4	2.9	12.6	19.8	67.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.1	.1	.0	.0	.0	2	.2
75/79	.0	.0	.1	.0	.4	.5	.1	.0	11	1.0
70/74	.0	.0	.0	.5	1.3	3.3	3.4	1.4	107	9.9
65/69	.0	.0	.3	1.2	2.9	7.0	9.4	9.9	332	30.7
60/64	.0	.0	.3	1.4	3.7	8.4	11.0	13.4	433	40.0
55/59	.0	.0	.1	1.2	2.6	5.6	3.7	3.0	153	14.1
50/54	.0	.0	.0	.1	.6	.8	1.8	.3	39	3.6
45/49	.0	.0	.0	.0	.2	.2	.2	.0	6	.6
TOTAL	0	0	4	48	149	258	320	302	1083	100.0
PCT	.0	.0	.4	4.4	13.8	23.8	29.5	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
75	.2	.3	.1	.0	.3	.4	.0	.0	.0	.1
70	1.0	2.9	1.3	1.2	1.0	.9	.4	.7	.0	.3
65	3.4	9.0	3.5	3.4	3.3	2.4	1.6	1.6	.0	.5
60	3.3	10.4	6.4	6.6	3.4	4.1	1.4	1.3	.0	.7
55	.9	1.5	1.8	1.3	3.9	3.3	.4	.6	.0	.3
50	.2	.2	.2	.4	1.3	.7	.1	.0	.0	.0
45	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0
TOTAL	9.2	24.3	15.3	13.3	15.8	11.6	3.9	4.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	73	70	63	33	30	43	62.4	1786
06009	77	70	68	62	33	49	43	61.3	1084
12015	88	77	73	63	36	32	48	64.7	2084
18021	89	78	74	63	36	32	30	63.6	1081
TOT	89	76	72	64	34	30	43	63.6	6033

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	11.1	23.6	31.3	29.3	62		62	270
06009	.0	3.2	10.4	18.9	26.6	41.0	84		84	222
12015	.0	4.6	16.4	21.0	32.4	25.6	80		80	324
18021	.0	9.1	15.8	29.8	23.6	19.6	77		77	285
TOT	0	35	132	264	322	303	61		61	1101

NOVEMBER

PERIOD: (PRIMARY) 1909-1979
(OVER-ALL) 1860-1979

TABLE 17

AREA 0012. BUENOS AIRES
34.43 52.7W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	82 85	89 92	TOT FOG	W FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	2	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	6	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.3	.2	.2	.1	.1	.0	17	.0	1.2
9/10	.0	.0	.0	.0	.0	.0	.6	.4	.2	.1	.1	.0	.0	23	.0	1.7
7/8	.0	.0	.0	.0	.1	.4	.8	1.1	.8	.2	.1	.0	.0	51	.1	3.5
6	.0	.0	.0	.0	.0	.4	.5	.8	.1	.0	.0	.0	.0	27	.2	1.7
5	.0	.0	.0	.0	.3	.7	2.5	1.2	.3	.1	.0	.0	.0	71	.2	4.9
4	.0	.0	.0	.1	.2	1.4	1.8	1.3	.4	.1	.0	.0	.0	73	.1	5.1
3	.0	.0	.0	.0	.2	2.6	3.2	1.1	.1	.1	.0	.0	.0	102	.1	7.2
2	.0	.0	.0	.2	.9	4.0	4.0	1.6	.4	.0	.0	.0	.0	122	.4	10.6
1	.0	.0	.0	.1	1.0	5.1	3.7	1.1	.1	.0	.0	.0	.0	135	.4	10.7
0	.0	.0	.1	.4	1.4	6.5	3.1	1.2	.4	.0	.0	.0	.0	192	.4	12.7
-1	.0	.0	.1	.1	1.7	2.7	2.7	.7	.1	.0	.0	.0	.0	113	.1	8.0
-2	.0	.0	.1	.2	2.0	3.2	1.5	.6	.1	.0	.0	.0	.0	109	.3	7.5
-3	.0	.0	.3	.4	2.0	1.9	.6	.4	.1	.0	.0	.0	.0	80	.1	5.7
-4	.0	.1	.1	.4	1.9	1.9	1.2	.1	.0	.0	.0	.0	.0	80	.1	5.4
-5	.0	.1	.0	.6	1.3	1.0	.5	.1	.0	.0	.0	.0	.0	52	.0	3.7
-6	.0	.0	.3	.2	.8	.6	.2	.1	.0	.0	.0	.0	.0	34	.0	2.4
-7/8	.0	.0	.6	.4	.4	.4	.1	.1	.0	.0	.0	.0	.0	29	.0	2.1
-9/10	.1	.0	.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	16	.1	1.1
-11/13	.0	.0	.4	.3	.2	.0	.1	.0	.0	.3	.0	.0	.0	14	.0	1.0
-14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	36	89	209	462	383	169	3.6	1.1	.4	2	.1	1391	2.8	1392
PCT	.1	.1	2.6	4.0	15.0	23.2	27.5	12.1	3.6	1.1	.4	.1	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1909-1979

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WS	1-3	4-10	11-21	22-33	34-47	48+	PCT	WS	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.2	.0	.0	.0	.0	.3	41	.2	1.4	.2	.0	.0	.0	1.8
102	.2	1.9	.3	.0	.0	.0	2.4	102	.6	3.3	1.9	.0	.0	.0	6.0
304	.0	.3	1.6	.0	.0	.0	2.1	304	.0	1.9	4.1	.0	.0	.0	6.1
506	.0	.0	.4	.0	.0	.0	.4	506	.0	.4	2.0	.3	.0	.0	2.8
7	.0	.0	.2	.0	.0	.0	.2	7	.0	.0	.7	.3	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.1	.0	.0	.0	.4	12	.0	.1	.6	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.9	2.7	.0	.0	.0	5.9	TOT PCT	.8	7.2	9.0	.9	.0	.0	17.9

WS	1-3	4-10	11-21	22-33	34-47	48+	PCT	WS	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	1.2	.2	.0	.0	.0	1.5	41	.0	.7	.2	.0	.0	.0	.9
102	.0	3.4	1.7	.0	.0	.0	3.1	102	.0	4.8	1.6	.0	.0	.0	6.4
304	.0	1.3	3.5	.0	.0	.0	4.8	304	.0	1.9	1.8	.0	.0	.0	3.7
506	.0	.3	2.7	.3	.0	.0	4.0	506	.0	.4	2.0	.6	.0	.0	3.1
7	.0	.1	.1	.3	.0	.0	1.3	7	.0	.6	.8	.2	.0	.0	1.1
8-9	.0	.0	.4	.2	.0	.0	.7	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.2	.2	.4	.0	.0	.8
12	.0	.0	.2	.0	.0	.0	.2	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.4	10.2	1.1	.0	.0	17.8	TOT PCT	.0	6.0	7.1	1.2	.0	.0	16.4

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER

AREA 0012 BUENOS AIRES
34.45 52.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.9	.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	1.0
1-2	.4	2.6	1.2	.0	.0	.0	4.1	.0	1.2	.2	.0	.0	.0	1.4
3-4	.0	.9	2.9	.0	.0	.0	4.4	.0	1.0	.8	.2	.0	.0	2.2
5-6	.0	.3	2.5	.0	.0	.0	3.4	.0	.1	2.5	1.2	.0	.0	3.7
7	.0	.1	2.0	.0	.0	.0	2.8	.0	.0	.9	.8	.2	.0	2.0
8-9	.0	.0	.3	.3	.0	.0	.8	.0	.0	.0	.8	.2	.0	1.0
10-11	.0	.0	.3	.2	.0	.0	.7	.0	.0	.2	1.3	.0	.0	1.5
12	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	9.3	9.0	2.6	.0	.0	18.8	.2	3.4	4.6	4.5	.6	.0	13.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.3	.2	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.1	.0	.0	.0	.0	.1	.0	1.1	.6	.0	.0	.0	1.4	
3-4	.0	.9	.2	.0	.0	.0	1.1	.0	.4	1.0	.0	.0	.0	1.9	
5-6	.0	.2	.6	.2	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.7	.9	1.1	.0	.0	3.9	.1	1.4	1.8	.0	.0	.0	3.4	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	3.8	.7	.0	.0	.0	11.3	
1-2	1.3	18.4	7.3	.0	.0	.0	29.2	
3-4	.2	9.3	19.7	.2	.0	.0	29.4	
5-6	.0	1.6	13.1	3.3	.0	.0	18.2	
7	.0	.4	9.7	2.9	.2	.0	13.1	
8-9	.0	.2	1.3	1.3	.0	.0	2.9	
10-11	.0	.2	1.1	1.8	.0	.0	3.1	
12	.0	.4	.4	.3	.0	.0	1.3	
13-16	.0	.0	.2	1.1	.3	.0	1.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	36.1	45.6	11.3	.5	.0	100.0	348

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	3.7	14.6	15.0	7.6	3.0	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	423	3
1-2	.0	1.8	9.3	7.0	4.1	1.7	.6	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	5
3-4	.0	.0	1.7	2.0	1.2	1.3	1.2	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	7
5-6	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	5
7-9	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	3
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	884	4
TOTAL	3.2	1.7	3.3	1.6	.9	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	6.9	18.6	30.9	19.0	12.3	4.9	3.4	2.0	1.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

P. 9100: (PRIMARY) 1909-1975
(OVER-ALL) 1864-1975

DECEMBER

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG MEA
N	1.9	.6	.6	.0	.0	.0	.0	3.1	2.6	3.8	1.2	.0	.3	.0	.0	89.0
NE	2.2	.3	.3	.0	.0	.0	.0	2.8	1.7	2.8	.7	.3	.9	.0	.0	91.0
E	1.0	1.7	.7	.0	.0	.0	.0	3.3	2.1	1.9	2.2	.0	.0	.0	.0	91.0
SE	2.9	1.2	.0	.0	.0	.0	.0	4.1	1.6	3.5	3.8	.0	.0	.0	.0	86.2
S	.7	1.1	.0	.0	.0	.0	.0	2.3	.4	.6	3.9	.0	1.0	.0	.0	90.0
SW	.7	1.1	.8	.0	.0	.0	.0	2.4	2.2	1.2	.8	.0	.7	.0	.0	90.0
W	9.4	.0	4.4	.0	.0	.0	.0	11.9	.0	.0	.0	.0	2.3	.0	.0	85.3
NW	2.8	2.8	.0	.0	.0	.0	.0	3.6	3.1	.7	2.1	.0	.7	.0	.0	87.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	88.9
TOT PCT	1.9	.9	.3	.0	.0	.0	.0	3.3	1.7	1.5	3.0	.1	.6	.0	.0	90.0
TOT OBS:	1286															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG MEA
00003	1.3	.3	.7	.0	.0	.0	.0	2.0	1.0	2.7	6.4	.3	.7	.0	.0	87.3
06009	1.2	1.6	.0	.0	.0	.0	.0	2.8	1.2	3.2	1.2	.0	.0	.0	.0	92.0
12015	2.7	1.9	1.1	.0	.0	.0	.0	3.6	2.6	.3	1.9	.0	.3	.0	.0	88.6
18021	1.8	.3	.3	.0	.0	.0	.0	2.4	1.3	.3	2.6	.0	1.3	.0	.0	92.1
TOT PCT	1.8	1.0	.3	.0	.0	.0	.0	3.3	1.7	1.5	3.0	.1	.7	.0	.0	90.0
TOT OBS:	1306															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-5	6-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	6.3	3.8	.9	.0	.0	14.0	11.1	10.5	14.7	15.8	17.8	16.9	14.2	12.1	10.3	
NE	1.1	11.1	11.7	1.6	.1	.0	25.6	11.9	25.5	28.4	28.0	26.8	23.0	22.1	20.1	23.1	
E	.8	6.9	6.0	.8	.1	.1	13.7	11.2	15.9	16.0	10.4	13.1	11.2	12.3	12.5	22.1	
SE	.6	3.4	4.0	1.0	.3	.0	11.4	12.2	13.0	12.2	11.2	10.1	10.3	9.7	12.2	13.3	
S	.7	4.7	3.1	1.8	.3	.0	12.7	13.6	13.0	11.4	12.8	10.1	12.8	13.9	13.0	11.6	
SW	.3	3.2	3.9	1.9	.3	.0	9.6	13.7	9.0	7.3	9.6	7.1	10.0	9.1	13.2	9.3	
W	.3	1.7	1.2	.6	.2	.1	4.1	13.7	2.5	3.1	4.0	3.9	4.4	7.0	3.1	3.3	
NW	.6	3.0	2.2	.4	.1	.0	6.3	10.8	4.0	4.8	3.1	6.4	9.0	8.7	3.7	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	2.8	1.5	3.4	2.9	2.2	3.6	2.0	2.2	
TOT OBS	477	2426	2197	307	81	11	3699	11.9	986	713	583	383	383	950	1053	709	360
TOT PCT	8.4	42.6	38.6	5.0	1.4	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	03	09	12	18
N	3.7	7.6	2.3	.2	.0		14.0	11.1	12.3	10.6	15.5	11.5		
NE	3.4	13.8	6.1	.2	.0		23.6	11.9	28.5	27.5	22.5	23.1		
E	3.4	7.7	2.3	.3	.1		13.7	11.2	15.9	11.5	11.7	15.7		
SE	2.7	6.0	2.1	.5	.1		11.4	12.2	12.8	10.8	10.0	12.6		
S	2.7	5.7	3.3	.7	.1		12.7	13.6	12.3	12.3	13.2	12.6		
SW	1.6	4.2	2.7	.9	.1		9.6	13.2	8.9	8.4	9.5	11.9		
W	1.3	1.7	.8	.3	.1		4.1	13.3	2.8	4.0	5.8	3.2		
NW	2.2	2.9	1.0	.2	.0		6.3	10.8	4.3	5.6	8.8	5.4		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.6						2.6	.0	2.8	3.2	2.9	2.1		
TOT OBS	1433	2877	1193	194	30	3699		11.9	1679	948	2003	1049		
TOT PCT	28.5	49.6	20.9	3.4	.5		100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1909-1975
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
DIR									FREQ	OBS
0000	2.3	5.0	40.4	41.8	8.6	1.7	.2	12.3	100.0	1679
0600	3.2	5.0	41.7	39.0	10.3	.6	.2	12.0	100.0	948
1200	2.9	7.2	44.2	34.8	8.9	1.8	.2	11.6	100.0	2003
1800	2.1	4.9	43.7	40.0	8.0	1.3	.1	12.0	100.0	1069
TOT	149	328	2426	2197	307	61	11	11.9		5699
PCT	2.6	5.6	42.6	38.6	5.9	1.4	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
DIR						
N	7.4	2.0	2.2	2.0		3.0
NE	11.9	3.9	5.0	4.9		3.6
E	4.7	2.1	5.0	1.1		3.6
SE	2.9	1.7	3.9	1.0		4.2
S	3.2	2.9	4.2	1.8		3.9
SW	6.3	3.7	4.1	1.8		3.6
W	.9	1.0	.3	.0		4.1
NW	.9	.9	1.4	1.2		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	.6	.2	.3		2.7
TOT OBS	381	153	207	129	870	3.6
TOT PCT	43.7	17.6	23.8	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	100	200	300	400	1000	2000	3000	4000	5000	6000	8000+	NM <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999				ANY HGT	OBS
.0	.1	.0	.0	1.0	1.2	.3	.0	.4	.3	.3	10.3		
.1	.1	.1	1.1	2.6	1.8	.9	.3	.8	.2	17.6			
.1	.0	.3	.3	1.0	1.0	.2	.0	.0	.0	7.7			
.2	.0	.0	.1	.7	1.0	.1	.3	.1	.1	6.2			
.2	.1	.0	.4	1.3	1.3	.9	.3	.1	.2	9.1			
.0	.0	.1	.3	2.2	1.1	.6	.2	.1	.0	11.3			
.0	.0	.1	.0	.1	.3	.9	.0	.0	.0	2.1			
.1	.0	.0	.1	.4	.2	.5	.0	.1	.3	4.1			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	2.2			
11	3	6	22	80	72	32	12	6	9	617			870
1.3	.3	.7	2.3	9.2	6.3	3.7	1.4	.7	1.0	70.9			100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FST)	>10	>8	>6	VSBY (NM) >1	>1/2	>1/4	>3000	>0
>4500	1.3	1.3	1.6	1.0	1.6	1.6	1.6	1.6
>3000	3.4	3.0	3.1	3.2	3.2	3.2	3.2	3.2
>2500	5.4	6.3	6.7	6.8	6.8	6.8	6.8	6.8
>2000	11.9	14.6	14.9	15.1	15.1	15.1	15.1	15.1
>1000	18.1	23.3	23.7	23.8	23.8	23.8	23.8	24.1
>600	19.3	23.4	26.1	26.3	26.3	26.3	26.3	26.6
>500	20.0	26.1	26.8	27.0	27.0	27.1	27.1	27.3
>150	20.1	26.3	27.1	27.4	27.4	27.5	27.5	27.6
>0	20.1	26.6	27.8	28.1	28.1	28.4	28.7	28.8
TOTAL	176	233	244	246	246	249	252	253

TOTAL NUMBER OF OBS: 877

PCT FREQ NM <5/8: 71.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
OBS									OBS
22.7	17.9	12.0	9.7	7.2	6.1	7.6	6.9	8.0	970

PERIOD: (PRIMARY) 1909-1975
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.1	.4	.0	.1	.3	.0	.0	.0	.0	.1	.9	
	TOT %	.1	.4	.0	.1	.3	.0	.1	.0	.0	.1	1.1	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.4	
1<2	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.2	.0	.0	.1	.0	.1	.0	.0	.0	.5	
2<5	PCP	.1	.2	.0	.1	.0	.1	.0	.1	.0	.0	.6	
	NO PCP	.1	.4	.1	.2	.0	.2	.0	.0	.0	.2	1.1	
	TOT %	.2	.5	.1	.2	.0	.2	.0	.1	.0	.2	1.7	
5<10	PCP	.2	.4	.3	.1	.1	.2	.1	.1	.0	.0	1.5	
	NO PCP	2.7	3.7	2.2	2.4	2.5	2.8	.3	.3	.0	.4	19.7	
	TOT %	2.9	6.1	2.4	2.6	2.6	3.0	.3	.9	.0	.4	21.2	
10+	PCP	.1	.0	.0	.2	.1	.0	.1	.1	.0	.0	.6	
	NO PCP	9.9	18.5	8.6	4.9	11.4	11.1	2.5	4.4	.0	2.1	74.5	
	TOT %	10.0	18.5	8.6	7.0	10.6	11.2	2.6	4.5	.0	2.1	75.1	
TOT OBS													1284
TOT PCT		19.3	29.8	11.3	10.0	13.7	14.4	9.1	9.6	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.3	.1	.3	.0	.0	.0	.0	.0	1.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.5	.1	.1	.0	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.1	.4	.1	.1	.0	.1	.0	.0	.0	.0	.9	
	11-21	.2	.3	.2	.3	.1	.0	.0	.1	.0	.0	1.7	
	22+	.0	.3	.0	.0	.1	.1	.0	.0	.0	.0	.6	
	TOT %	.4	1.0	.4	.4	.3	.2	.1	.1	.0	.2	2.9	
5<10	0-3	.1	.1	.0	.2	.1	.0	.0	.1	.0	.2	1.0	
	4-10	1.0	2.0	.8	1.1	.7	.7	.1	.2	.0	.0	6.3	
	11-21	1.2	2.9	1.4	1.0	.9	.7	.1	.3	.0	.0	8.4	
	22+	.2	.4	.2	.1	.0	.7	.4	.0	.0	.0	2.3	
	TOT %	2.5	5.3	2.4	2.4	2.2	2.2	.6	.6	.0	.2	18.4	
10+	0-3	.4	.6	.3	.4	.4	.3	.2	.2	.0	2.0	4.9	
	4-10	4.9	8.3	4.6	4.8	3.5	2.3	1.2	2.8	.0	.0	32.8	
	11-21	4.2	9.6	4.2	3.0	4.4	4.1	1.2	1.3	.0	.0	31.9	
	22+	.3	1.0	.4	.2	1.8	2.4	.3	.0	.0	.0	6.6	
	TOT %	9.8	19.7	9.6	8.4	10.0	9.0	2.9	4.3	.0	2.0	76.1	
TOT OBS													2345
TOT PCT		19.1	26.9	12.7	11.5	12.7	11.5	9.6	9.2	.0	2.9	100.0	

DECEMBER

PERIOD: (PRIMARY) 1969-1973
(OVER-ALL) 1964-1973

AREA 0012 BUENOS AIRES
34.35 52.74

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 509	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	3.3	.5	1.0	2.0	9.9	3.4	3.0	1.0	1.0	2.0	29.2	70.8	202
0600Z	.6	.0	.6	3.4	5.7	9.8	2.3	2.3	.6	.6	25.9	74.1	176
1201Z	.4	.0	.8	3.1	9.2	7.7	4.6	.8	1.1	.8	28.4	71.6	201
1802Z	.7	.7	.3	1.3	8.7	8.0	3.3	2.0	.0	.7	25.7	74.3	300
TOT	11	3	6	22	80	72	32	14	6	9	155	682	937
PCT	1.2	.3	.6	2.3	8.5	7.7	3.4	1.5	.6	1.0	27.2	72.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	1.4	.6	.8	3.8	20.5	72.9	635
0600Z	.9	.2	.9	3.0	19.6	75.3	433
1201Z	1.4	.3	1.1	2.5	18.2	76.5	724
1802Z	.9	.2	1.2	2.4	15.7	79.6	573
TOT	28	8	24	69	437	1799	2365
PCT	1.2	.3	1.0	2.9	18.5	76.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500 FT	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	3.8	5.4	9.1	23.2	68.6	185
0600Z	1.2	1.8	6.7	22.0	71.3	164
1201Z	.4	1.6	6.1	24.5	69.4	245
1802Z	.7	2.1	4.2	23.0	72.8	283
TOT	12	23	93	204	620	877
PCT	1.4	2.6	6.0	23.3	70.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.4	.4	.3	.1	.0	9	1.2
73/79	.0	.0	.0	.4	.6	2.3	1.4	.3	39	3.0
76/74	.0	.0	.5	.6	3.6	7.4	10.1	8.2	238	30.3
69/69	.0	.0	.6	1.0	3.3	10.4	12.3	11.9	310	39.7
60/64	.0	.0	.1	2.2	5.0	3.7	4.6	3.6	150	19.2
53/59	.0	.0	.0	.3	.6	1.3	1.5	.6	34	4.4
50/54	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
TOTAL	0	0	10	38	107	198	236	192	761	100.0
PCT	.0	.0	1.3	4.9	13.7	25.4	30.2	24.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.4	.0	.0	.2	.2	.0	.1	.0	.0
1.0	1.9	.4	.3	.1	.3	.2	.4	.0	.3
5.4	10.6	3.6	3.0	2.0	2.4	.9	2.1	.0	.6
5.0	10.7	4.4	4.4	4.9	6.0	.8	3.1	.0	.3
1.0	3.0	1.7	1.9	4.4	3.7	.7	.7	.0	.4
.1	.2	.1	.4	2.0	.9	.2	.1	.0	.4
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
12.6	26.8	10.2	10.0	13.5	13.5	2.8	6.5	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	76	73	67	59	56	48	66.9	1639
0600Z	82	73	72	66	58	55	47	65.8	949
1201Z	86	79	76	68	60	56	48	69.4	1917
1802Z	86	82	79	70	61	57	54	70.1	1013
TOT	86	80	75	68	59	56	47	67.8	5530

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.8	9.6	25.8	30.6	39.1	82	209		
0600Z	.0	3.1	8.1	15.4	41.9	29.4	83	136		
1201Z	.0	3.7	16.2	27.3	26.6	24.0	79	229		
1802Z	.0	9.0	10.3	28.7	23.1	17.9	76	223		
TOT	0	48	111	202	238	198	80	797		

DECEMBER

PERIOD: (PRIMARY) 1969-1975
(OVER-ALL) 1964-1975

AREA 0012 BUENOS AIRES
34.35 52.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDC (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N PDC	W0 PDC
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	.2	5	.0	.4
11/13	.0	.0	.0	.0	.1	.2	.4	.4	.9	.1	24	.0	2.0
9/10	.0	.0	.0	.0	.3	.2	.6	.4	.2	.0	19	.0	1.6
7/8	.0	.0	.0	.0	.3	.3	.8	.9	.2	.0	30	.0	2.6
6	.0	.0	.0	.1	.0	.3	.8	.4	.1	.0	19	.1	1.3
5	.0	.0	.0	.4	.7	.9	1.1	.7	.3	.0	47	.1	3.9
4	.0	.0	.1	.2	.8	2.3	1.5	.7	.1	.0	66	.4	5.2
3	.0	.0	.8	.6	1.8	2.0	.2	.0	.0	.0	63	.3	5.0
2	.0	.0	.2	.3	2.7	4.5	2.9	.3	.0	.0	131	.6	10.6
1	.0	.0	.2	.3	3.3	4.9	1.3	.0	.0	.0	120	.1	10.1
0	.0	.0	.0	1.6	4.8	5.8	1.3	.3	.0	.0	164	.4	13.3
-1	.0	.2	.1	.7	3.7	2.1	.4	.1	.0	.0	86	.0	7.3
-2	.0	.1	.3	3.7	3.7	1.3	.3	.0	.0	.0	117	.3	9.7
-3	.0	.2	.3	1.8	1.8	.3	.0	.0	.0	.0	34	.3	4.3
-4	.0	.1	.9	2.3	2.2	.4	.2	.0	.0	.0	71	.2	5.9
-5	.0	.1	.9	1.4	1.7	.3	.0	.0	.0	.0	52	.0	4.4
-6	.0	.0	.8	.9	.4	.1	.0	.0	.0	.0	25	.3	1.8
-7/-8	.0	.2	.7	1.4	1.2	.1	.0	.0	.0	.0	41	.0	3.3
-9/-10	.0	.4	.6	.7	.2	.0	.0	.0	.0	.0	22	.0	1.9
-11/-13	.1	.1	.3	.3	.2	.0	.0	.0	.0	.0	11	.0	.9
-14/-16	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	1	13	63	201	311	164	93	22	3	1175	36	1139	
PCT	.1	1.3	5.3	17.1	28.6	14.0	4.7	1.9	.4	100.0	3.1	96.9	

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.9	.0	1.0	.2	.0	.0	.0	1.3
1-2	.2	3.1	1.0	.0	.0	.0	4.3	.3	4.4	3.2	.0	.0	.0	8.0
3-4	.0	1.4	3.4	.2	.0	.0	5.0	.0	1.7	6.7	.2	.0	.0	8.6
5-6	.0	.7	3.7	.7	.0	.0	5.0	.0	.2	4.8	.8	.0	.0	5.9
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.0	.3	.0	.0	1.4
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.3	.2	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	8.3	1.1	.0	.0	13.8	.3	7.4	16.4	2.0	.2	.0	26.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.8	1.2	.0	.0	.0	4.0	.0	1.1	.8	.0	.0	.0	1.9
3-4	.0	.8	2.8	.2	.0	.0	3.8	.1	.8	1.7	.0	.0	.0	2.6
5-6	.0	.2	1.9	.4	.0	.0	2.5	.0	.3	.7	.0	.0	.0	1.1
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	3.9	.9	.0	.0	10.6	.1	3.3	3.4	.3	.1	.0	7.1

PERIOD: (OVER-ALL) 1963-1975

DECEMBER

AREA 0012 BUENOS AIRES
34.35 52.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1
1-2	.2	1.8	.4	.0	.0	.0	2.3	.0	1.1	.2	.0	.0	.0	1.3
3-4	.2	1.0	2.5	.0	.0	.0	3.6	.0	1.9	2.4	.0	.0	.0	4.3
5-6	.0	.2	2.8	.5	.0	.0	1.6	.0	.5	2.5	.5	.0	.0	3.4
7	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.6	.2	.0	.0	.8
8-9	.0	.0	.7	.6	.0	.0	1.3	.0	.0	.5	.6	.0	.0	1.1
10-11	.0	.0	.0	.2	.2	.0	.4	.0	.2	.2	.7	.3	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.7	6.9	1.3	.6	.0	12.9	.0	3.8	6.7	2.3	.3	.0	13.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.8	.2	.0	.0	.0	1.1	.2	1.5	.2	.0	.0	.0	1.9	
3-4	.0	.2	.7	.0	.0	.0	.8	.0	.8	.8	.0	.0	.0	1.6	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.3	.6	.2	.0	.0	1.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	1.1	.4	.2	.0	2.8	.2	2.9	1.6	.2	.0	.0	4.9	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	4.0	.2	.0	.0	.0	10.9	
1-2	1.4	16.4	7.1	.0	.0	.0	24.9	
3-4	.2	8.6	20.7	.7	.0	.0	30.2	
5-6	.0	2.6	15.0	3.1	.0	.0	20.7	
7	.0	.0	4.3	1.4	.0	.0	5.7	
8-9	.0	.0	2.1	1.7	.0	.0	3.8	
10-11	.0	.2	.2	1.2	.7	.0	2.4	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.3	.7	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	31.8	49.9	8.6	1.4	.0	100.0	421

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENTY FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	8.9	18.9	8.0	2.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	310	3
6-7	.1	.9	7.3	11.9	5.2	2.6	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	4
8-9	.0	.0	1.6	2.4	3.1	1.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	6
10-11	.0	1.6	.3	.0	.1	.9	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
12-13	.0	.0	1.6	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
15-19	.0	.0	.1	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
INDET	1.8	2.4	2.8	1.2	1.0	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	4
TOTAL	3.9	13.4	32.6	25.3	12.6	5.8	3.4	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	763	3
PCT	3.9	13.4	32.6	25.3	12.6	5.8	3.4	1.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

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34.35 52.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZLN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	2.5	.8	1.1	.0	.0	.0	.0	4.4	1.5	2.1	6.9	.2	1.4	.1	83.9
NE	3.3	1.6	.9	.0	.0	.0	.0	3.0	2.1	1.8	7.4	.3	1.2	.0	82.0
E	4.6	2.2	1.6	.0	.0	.0	.0	8.3	2.8	1.0	4.2	.2	.9	.0	82.9
SE	4.3	2.4	1.2	.0	.0	.0	.0	8.3	2.3	1.3	3.4	.2	.6	.0	84.3
S	3.6	2.0	1.0	.0	.0	.0	.0	6.5	2.2	.8	3.4	.2	.7	.0	86.4
SW	1.9	1.5	.6	.0	.0	.0	.1	4.1	1.9	1.0	3.2	.0	.5	.0	89.3
W	3.2	1.1	.9	.0	.0	.0	.0	5.0	1.5	1.2	4.3	.2	.8	.0	87.5
NW	2.4	1.1	.8	.0	.0	.0	.0	4.3	1.7	1.4	6.0	.2	.7	.1	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.9	1.0	1.0	.0	.0	.0	.1	3.1	2.4	.4	13.5	.0	.7	.0	77.3
TOT PCT	3.1	1.5	1.0	.0	.0	.0	.0	5.0	2.0	1.3	9.4	.2	.9	.0	85.1
TOT OBS: 24935															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZIN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.3	1.4	1.0	.0	.0	.0	.0	5.9	1.9	2.4	5.4	.1	.7	.0	84.2
0600	3.3	1.8	1.1	.0	.0	.0	.0	6.2	2.2	2.9	4.9	.2	.8	.0	83.8
1200	2.9	1.3	.9	.0	.0	.0	.0	5.3	1.7	.4	5.3	.2	1.1	.0	86.0
1800	2.6	1.4	1.1	.0	.0	.0	.0	5.1	2.1	.3	5.5	.2	1.1	.0	85.7
TOT PCT TOT OBS: 25459	3.1	1.5	1.0	.0	.0	.0	.0	5.6	2.0	1.3	9.4	.2	.9	.0	85.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21		
N	.9	5.9	4.7	.9	.1	.0		12.3	11.4	9.9	12.7	12.7	16.1	14.4	13.1	10.9	10.3		
NE	1.0	8.4	9.1	1.3	.1	.0		29.1	11.9	21.0	21.4	20.7	18.3	17.2	16.3	19.7	18.2		
E	.8	5.8	4.1	.7	.1	.0		11.6	11.1	19.4	12.8	10.8	11.1	9.9	10.8	11.0	15.1		
SE	.8	5.7	4.1	1.0	.2	.0		11.8	11.8	12.6	19.1	10.8	12.1	11.0	11.6	10.8	15.3		
S	.8	3.0	3.1	1.6	.3	.1		13.0	13.4	13.7	12.7	12.2	12.4	12.7	12.7	13.7	14.0		
SW	.7	4.2	3.2	2.3	.6	.1		13.4	13.6	13.4	11.0	14.0	11.3	13.7	13.2	16.3	12.3		
W	.6	2.8	2.9	1.1	.4	.1		7.7	14.1	6.6	6.2	7.8	7.2	8.1	9.7	7.7	7.1		
NW	.6	3.7	2.6	.7	.2	.0		7.8	11.7	5.3	7.4	7.4	8.3	9.3	10.0	6.4	6.9		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALP	3.2							3.2	.0	3.8	2.7	4.4	3.8	3.4	2.6	3.3	2.2		
TOT OBS	9.5	41.7	36.4	9.9	2.1	.4	82461	12.3		14336	9779	9288	5397	14607	13662	10227	5183		
TOT PCT	9.5	41.7	36.4	9.9	2.1	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	06	12	18
N	3.3	6.6	2.2	.3	.0		12.3	11.4	11.0	13.9	13.8	10.8	
NE	4.1	10.3	4.0	.4	.1		19.1	11.9	21.2	19.8	16.8	19.2	
E	3.2	6.2	1.8	.3	.1		11.6	11.1	13.2	10.4	10.3	12.4	
SE	3.1	6.0	2.1	.4	.1		11.8	11.8	12.8	11.2	11.3	11.6	
S	2.9	3.9	3.4	.7	.1		13.0	13.4	13.3	12.3	12.7	13.8	
SW	2.4	3.4	4.0	1.3	.3		13.4	13.6	12.4	13.0	13.3	13.1	
W	1.9	3.1	1.7	.8	.3		7.7	14.1	6.4	7.6	8.9	7.3	
NW	2.2	3.8	1.4	.3	.1		7.8	11.7	6.3	7.8	9.7	6.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALP	3.2						3.2	.0	3.3	3.9	3.0	2.9	
TOT OBS	26.3	47.4	20.6	4.3	1.0	82461	12.3		24115	14663	28289	13612	
TOT PCT	26.3	47.4	20.6	4.3	1.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1909-1976
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-29	34-47	48+			
0000	3.3	6.0	41.0	37.4	9.7	2.0	.5	12.3	100.0	24115
0400	3.9	6.0	40.3	37.4	10.2	2.0	.3	12.3	100.0	14665
1200	3.0	6.0	43.6	34.7	10.1	2.3	.5	12.3	100.0	28269
1800	2.9	6.0	42.5	37.1	9.5	1.6	.4	12.1	100.0	15412
TOT								12.3		82461
PCT	3.2	6.2	41.7	34.4	9.9	2.1	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	5.1	1.6	2.3	2.4		3.8
NE	7.8	9.0	4.5	4.7		4.2
E	3.7	1.7	2.6	2.9		4.3
SE	3.0	1.7	2.7	2.3		4.6
S	4.5	2.3	3.6	2.8		4.2
SW	9.9	9.3	4.4	2.9		3.9
W	3.2	1.1	1.8	1.2		3.6
NW	2.9	.8	1.3	1.2		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.9	.3	.6	1.4		3.6
TOT OBS					13941	4.0
TOT PCT	38.0	16.0	24.0	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8 AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM ANY	<5/8 MGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
N	.6	.0	.1	.3	.8	1.0	.4	.1	.1	.1	.1	.1	8.1
NE	1.1	.1	.2	.8	2.0	1.7	.4	.3	.2	.2	.2	.2	13.0
E	.9	.0	.2	.9	1.2	1.0	.5	.1	.1	.1	.1	.1	6.7
SE	.4	.0	.1	.4	1.2	1.0	.5	.2	.1	.0	.0	.0	3.9
S	.4	.0	.1	.6	1.7	1.6	.9	.1	.1	.1	.1	.1	8.1
SW	.6	.0	.1	.7	1.8	2.0	.6	.1	.1	.1	.1	.1	10.3
W	.2	.0	.0	.3	.8	.8	.9	.0	.1	.0	.0	.0	4.8
NW	.2	.0	.0	.2	.8	.9	.2	.0	.0	.1	.1	.1	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.1	.3	.4	.1	.0	.0	.0	.0	.0	2.3
TOT OBS													13941
TOT PCT	4.7	.1	.9	3.9	10.4	9.9	3.7	1.0	.7	.4	64.1		100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>3	>2	>1	>0
>4500	.9	1.2	1.3	1.3	1.3	1.3	1.3	1.3
>3000	1.6	2.2	2.3	2.3	2.3	2.3	2.4	2.4
>2500	4.0	5.6	5.9	6.0	6.0	6.0	6.1	6.1
>2000	9.7	14.4	15.3	15.7	15.8	15.9	15.9	15.9
>1500	14.8	23.0	23.4	23.9	24.0	24.2	24.2	24.2
>1000	18.8	26.3	29.1	29.7	29.9	30.1	30.1	30.2
>800	17.1	27.0	29.9	30.6	30.8	31.0	31.0	31.1
>600	17.2	27.1	30.1	30.7	31.0	31.1	31.2	31.2
>400	17.2	27.4	31.1	32.0	32.4	33.3	33.3	33.3

TOTAL NUMBER OF OBS: 14029

PCT FREQ NM <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
23.4	12.9	11.6	9.8	6.7	5.2	7.3	6.6	13.4	4.0	17902

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	0	.1	.1	0	0	0	0	.0	.0	0	.3		
	NO PCP	.9	.7	.2	.1	.2	.2	.2	.2	.0	.5	2.9		
	TOT %	.3	.8	.3	.2	.3	.3	.2	.2	.0	.5	3.2		
1/2<1	PCP	0	0	.1	.1	0	0	0	0	.0	0	.3		
	NO PCP	.1	.1	0	0	0	0	0	0	.0	0	.4		
	TOT %	.1	.1	.1	.1	.1	.1	0	0	.0	0	.7		
1<2	PCP	0	.2	.1	.1	.1	0	0	0	.0	0	.6		
	NO PCP	.1	.2	.1	0	0	.1	.1	.1	.0	0	.7		
	TOT %	.2	.3	.2	.1	.1	.1	.1	.1	.0	.1	1.3		
2<5	PCP	.1	.3	.3	.2	.2	.1	.1	.1	.0	.1	1.4		
	NO PCP	.9	1.0	.4	.3	.4	.6	.3	.2	.0	.1	3.7		
	TOT %	.6	1.3	.6	.5	.6	.7	.4	.2	.0	.2	5.1		
5<10	PCP	.9	.5	.3	.3	.3	.3	.1	.1	.0	0	2.3		
	NO PCP	3.3	3.3	3.0	2.6	3.1	4.2	2.1	1.7	.0	1.0	26.7		
	TOT %	3.6	3.8	3.3	2.8	3.4	4.4	2.2	1.9	.0	1.0	28.5		
10+	PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.7		
	NO PCP	7.1	11.7	6.9	6.1	8.3	9.8	4.6	4.0	.0	2.0	60.6		
	TOT %	7.2	11.8	7.0	6.2	8.4	9.9	4.6	4.1	.0	2.0	61.3		
TOT OBS														24873
TOT PCT														12.1 20.1 11.9 10.0 12.9 13.5 7.9 6.5 .0 3.9 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	0	.1	0	0	0	0	0	0	.0	.4	.7	
	4-10	.3	.3	.1	.1	.1	.1	.1	.1	.0	0	1.3	
	11-21	.1	.2	.1	0	.1	.1	0	0	.0	0	.3	
	22+	0	0	0	0	0	0	0	0	.0	0	.1	
	TOT %	.4	.6	.2	.2	.2	.2	.1	.2	.0	.4	2.6	
1/2<1	0-9	0	0	0	0	0	0	0	0	.0	0	.1	
	4-10	0	.1	0	0	0	0	0	0	.0	0	.2	
	11-21	0	0	0	0	0	0	0	0	.0	0	.2	
	22+	0	0	0	0	0	0	0	0	.0	0	.1	
	TOT %	.1	.1	.1	.1	.1	.1	0	0	.0	0	.6	
1<2	0-9	0	0	0	0	0	0	0	0	.0	.1	.1	
	4-10	.1	.1	.1	0	0	.1	0	.1	.0	0	.6	
	11-21	.1	.2	.1	.1	.1	.1	0	0	.0	0	.6	
	22+	0	.1	0	0	0	0	0	0	.0	0	.3	
	TOT %	.2	.4	.2	.2	.1	.1	.1	.1	.0	.1	1.6	
2<5	0-9	0	.1	0	0	0	0	0	0	.0	.2	.4	
	4-10	.3	.3	.3	.2	.2	.2	.1	.1	.0	0	1.9	
	11-21	.2	.6	.3	.2	.3	.3	.1	.1	.0	0	2.1	
	22+	.1	.1	.1	.1	.1	.2	.1	0	.0	0	.9	
	TOT %	.6	1.3	.7	.6	.6	.7	.4	.3	.0	.2	5.3	
5<10	0-9	.2	.2	.1	.1	.1	.1	.1	.1	.0	.8	1.8	
	4-10	1.4	1.9	1.2	1.1	.9	.9	.6	.7	.0	0	8.8	
	11-21	1.2	2.4	1.2	1.0	1.3	1.5	.6	.6	.0	0	9.9	
	22+	.2	.4	.2	.3	.3	.3	.2	.2	.0	0	3.1	
	TOT %	3.0	4.9	2.6	2.5	2.9	3.5	1.7	1.5	.0	.8	23.7	
10+	0-9	.3	.7	.4	.4	.4	.3	.3	.3	.0	1.9	5.4	
	4-10	4.2	5.8	4.2	4.0	3.7	3.1	.8	2.3	.0	0	29.2	
	11-21	3.1	5.7	2.8	2.7	4.1	4.3	.7	1.6	.0	0	26.4	
	22+	.3	.5	.3	.3	1.0	1.8	.8	.3	.0	0	5.4	
	TOT %	8.1	12.7	7.7	7.5	9.2	9.8	4.8	4.7	.0	1.9	66.3	
TOT OBS													39530
TOT PCT													12.4 20.0 11.7 11.0 13.1 14.5 7.2 6.8 .0 3.4 100.0

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0012 BUENOS AIRES
34.55 52.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, MM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	TOTAL DBS	NM <5/8 ANY MGT	TOTAL DBS
00003	7.5	.2	.6	2.8	7.9	6.5	2.6	.8	.7	.4	29.9	70.1	3530									
06009	5.8	.2	.7	3.4	9.2	7.0	3.3	.8	.3	.7	31.3	68.7	3336									
12015	2.4	.1	1.1	4.5	10.7	11.8	3.8	1.2	.7	.4	37.6	62.4	5184									
18021	2.6	.1	.9	3.7	10.4	10.1	3.9	1.0	.9	.8	34.3	65.7	5119									
TOT PCT	4.4	.1	.8	3.7	9.7	9.3	3.5	1.0	.7	.6	39.8	64.2	17169									100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	TOTAL DBS
00003	2.6	.6	1.2	3.9	26.2	63.5	10768																		
06009	2.8	.4	1.5	6.5	26.3	62.6	7910																		
12015	2.7	.8	1.6	4.6	22.6	67.8	12282																		
18021	2.5	.7	1.5	4.5	20.6	70.1	9102																		
TOT PCT	2.6	.6	1.4	3.3	23.8	66.1	40062																		100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, MM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANY	NM <5/8 AND 5+	TOTAL DBS
00003	8.2	9.6	16.9	18.2	64.9	3167
06009	6.4	8.1	16.0	19.9	64.1	3063
12015	3.5	5.3	14.2	26.9	58.9	4877
18021	2.6	4.5	12.9	24.1	63.0	4922
TOT PCT	4.7	6.4	14.7	29.0	62.3	16029

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.0	.0	.0	.1	.2	.3	.1	.0	.8	.0
75/79	.0	.0	.0	.2	.5	1.0	1.4	.9	4.7	.0
70/74	.0	.0	.1	.6	2.2	3.9	5.7	4.4	17.0	.0
65/69	.0	.0	.2	.9	2.3	4.4	6.2	3.5	19.3	.0
60/64	.0	.0	.1	1.0	3.4	4.3	6.3	6.1	21.2	.0
55/59	.0	.0	.0	.6	2.2	3.9	6.7	6.4	19.8	.0
50/54	.0	.0	.0	.3	1.6	2.2	4.6	3.6	12.3	.0
45/49	.0	.0	.0	.0	.9	1.4	1.2	1.0	4.2	.0
40/44	.0	.0	.0	.0	.1	.1	.1	.1	1.2	.0
TOTAL PCT	.0	.0	.6	3.9	19.1	22.0	32.4	27.9	12770	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.2	.3	.1	.0	.1	.0	.1	.0	.0
75/79	.6	1.6	.7	.3	.2	.3	.4	.0	.1
70/74	2.6	4.8	2.7	1.8	1.6	1.3	.8	1.2	.2
65/69	2.8	4.3	2.6	2.3	2.3	2.3	1.2	1.4	.3
60/64	2.6	4.3	2.5	2.5	3.3	2.7	1.3	1.4	.3
55/59	2.1	3.3	1.3	2.2	3.0	3.4	1.8	1.3	.3
50/54	1.0	1.1	.9	1.4	2.4	3.0	1.4	.9	.2
45/49	.3	.1	.2	.5	.9	1.2	.6	.3	.1
40/44	.0	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL	12.3	20.0	12.0	11.0	13.9	14.3	7.4	7.1	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	86	72	69	62	53	50	36	61.4	23933
06009	71	71	68	61	53	49	37	60.5	14653
12015	71	75	71	63	55	51	36	62.7	27556
18021	71	76	73	64	58	52	37	63.8	14970
TOT	91	74	71	62	54	50	36	62.1	81132

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	3.1	11.2	20.6	33.4	31.7	83	3326		
06009	.0	2.5	9.9	19.0	33.8	34.9	83	2563		
12015	.0	4.3	12.7	22.2	32.7	28.0	81	3960		
18021	.0	7.6	17.6	25.0	30.3	19.2	78	3294		
TOT	1	596	1721	2888	4248	3673	61	19123		

PERIOD: (PRIMARY) 1969-1976
(OVER-ALL) 1954-1976

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AREA 0012 BUENOS AIRES
34.35 52.04

TABLE 17

PCT PRES OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	TOT	N FOG	NO FOG
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	61	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.0	174	.0	.8
9/10	.0	.0	.0	.0	.0	.1	.2	.2	.2	.1	.1	.1	.1	.0	.0	206	.0	1.2
7/8	.0	.0	.0	.0	.0	.3	.4	.5	.4	.3	.3	.4	.1	.0	.0	630	.2	2.6
6	.0	.0	.0	.0	.0	.3	.4	.5	.4	.3	.2	.2	.3	.1	.0	457	.2	1.8
5	.0	.0	.0	.0	.2	.3	.4	.5	.4	.3	.2	.3	.1	.0	.0	987	.4	4.0
4	.0	.0	.0	.0	.3	.4	.5	.6	.5	.4	.3	.2	.1	.0	.0	1325	.4	5.4
3	.0	.0	.0	.0	.3	.4	.5	.6	.5	.4	.3	.2	.1	.0	.0	1310	.4	5.4
2	.0	.0	.0	.0	.3	.4	.5	.6	.5	.4	.3	.2	.1	.0	.0	2316	.7	9.4
1	.0	.0	.0	.0	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	.0	2123	.5	8.9
0	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	2973	.8	12.1
-1	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	2024	.4	8.3
-2	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	2267	.5	9.0
-3	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	1384	.5	5.7
-4	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	1394	.5	5.7
-5	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	1080	.1	4.4
-6	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	631	.2	2.3
-7/-8	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	881	.1	3.5
-9/-10	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	424	.1	1.7
-11/-13	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	287	.0	1.1
-14/-16	.0	.0	.0	.0	.1	.2	.3	.4	.5	.6	.5	.4	.3	.2	.1	102	.0	.4
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.0	.1
-23/-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	.1
TOTAL																23151		
PCT	.0	.1	.3	3.9	9.9	14.2	13.9	13.9	14.0	13.9	8.1	2.0	.7	.2	.0	100.0	5.5	94.5

PERIOD: (OVER-ALL) 1969-1976

TABLE 18

PCT PRES OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.9	.3	.0	.0	.0	1.3	.4	1.2	.1	.0	.0	.0	1.6
1-2	.1	2.3	.3	.0	.0	.0	2.9	.2	3.5	1.4	.0	.0	.0	5.1
3-4	.0	1.2	1.9	.1	.0	.0	3.2	.0	2.0	3.8	.1	.0	.0	6.0
5-6	.0	.2	1.5	.2	.0	.0	1.9	.0	.3	3.0	.4	.0	.0	3.8
7	.0	.0	.3	.1	.0	.0	.6	.0	.0	1.3	.4	.0	.0	1.9
8-9	.0	.0	.1	.1	.0	.0	.3	.0	.0	.4	.2	.0	.0	.6
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	4.7	.6	.0	.0	10.5	.3	7.2	10.5	1.3	.1	.0	19.9

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.0	.1	.0	.0	.0	1.2	.2	.7	.0	.0	.0	.0	1.0
1-2	.1	2.0	.9	.0	.0	.0	3.0	.1	1.7	.7	.0	.0	.0	2.3
3-4	.0	.9	1.9	.1	.0	.0	2.9	.0	.8	1.3	.0	.0	.0	2.2
5-6	.0	.3	1.3	.2	.0	.0	1.7	.0	.3	1.1	.2	.0	.0	1.3
7	.0	.0	.4	.2	.0	.0	.6	.0	.0	.4	.1	.0	.0	.6
8-9	.0	.0	.2	.1	.0	.0	.3	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	4.3	.7	.0	.0	10.0	.3	3.7	3.9	.6	.0	.0	8.4

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 10 (CONT)

AREA 0012 BUENOS AIRES
34.55 52.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1	.3	.7	.1	.0	.0	.0	1.0
1-2	.2	1.0	.8	.0	.0	.0	2.0	.0	1.7	.6	.0	.0	.0	2.4
3-4	.0	1.1	1.0	.1	.0	.0	3.1	.0	1.4	2.2	.1	.0	.0	3.7
5-6	.0	.3	1.6	.3	.0	.0	2.2	.0	.3	2.1	.4	.0	.0	2.8
7	.0	.1	1.2	.4	.0	.0	1.6	.0	.1	1.6	.7	.0	.0	2.7
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.8	.9	.1	.0	1.7
10-11	.0	.0	.3	.2	.0	.0	.6	.0	.0	.5	1.0	.1	.0	1.6
12	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.4	.0	.0	.8
13-16	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.3	.1	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	6.2	1.5	.1	.0	12.4	.3	4.3	8.3	3.9	.3	.0	17.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.0	.0	.0	.0	.0	.7	.2	.5	.0	.0	.0	.0	.7	
1-2	.0	.9	.4	.0	.0	.0	1.3	.1	1.2	.4	.0	.0	.0	1.6	
3-4	.0	.0	1.0	.1	.0	.0	1.8	.0	.7	1.2	.1	.0	.0	1.9	
5-6	.0	.2	.8	.1	.0	.0	1.1	.0	.1	.3	.1	.0	.0	.8	
7	.0	.0	.5	.3	.0	.0	.8	.0	.0	.2	.2	.0	.0	.4	
8-9	.0	.0	.2	.2	.1	.0	.4	.0	.0	.1	.1	.0	.0	.1	
10-11	.0	.0	.1	.3	.1	.0	.5	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.3	3.1	1.5	.4	.0	7.5	.3	2.3	3.4	.6	.0	.0	9.8	91.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	6.3	.3	.0	.0	.0	17.2	
1-2	.9	19.1	9.7	.0	.0	.0	21.7	
3-4	.2	8.7	19.1	.7	.0	.0	24.7	
5-6	.0	2.1	11.9	1.7	.0	.0	13.6	
7	.0	.3	6.4	2.4	.1	.0	9.1	
8-9	.0	.1	2.2	1.9	.1	.0	4.4	
10-11	.0	.1	1.4	2.1	.2	.0	3.8	
12	.0	.0	.3	.8	.1	.0	1.3	
13-16	.0	.0	.2	.9	.4	.0	1.5	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.6	32.8	49.6	10.8	1.1	.1	100.0	9475

PERIOD: (OVER-ALL) 1949-1974

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-84	87+	TOTAL	MEAN HGT
<1	2.6	10.4	14.6	6.4	2.8	.8	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3444	3
1-2	.0	1.2	6.0	7.6	4.9	2.0	1.2	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3393	6
3-4	.0	.3	1.4	2.6	2.6	1.4	1.3	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1996	7
5-6	.0	.0	.3	.4	.6	.6	.4	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	929	7
7-9	.0	.0	.0	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	309	7
10-11	.0	.0	.0	.4	.2	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	148	8
12-13	.0	.0	.0	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3010	3
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14426	5
TOT PCT	8.5	19.0	27.1	20.5	13.2	6.0	4.5	1.7	1.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1976
(OVER-ALL) 1854-1976

AREA 0012 BUENOS AIRES
34.35 52.8W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
81/82	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	24	.0
79/80	.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.1	133	.2
77/78	1.6	3.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.2	428	.5
75/76	3.9	10.7	6.0	1.2	.1	.0	.0	.0	.0	.0	.4	.8	1395	2.0
73/74	19.6	28.8	20.3	4.7	.3	.1	.0	.0	.0	.0	.6	4.3	4834	6.1
71/72	26.8	28.2	29.2	8.6	1.2	.2	.1	.0	.2	.1	2.0	10.6	6840	8.6
69/70	21.6	16.3	19.2	15.3	4.3	1.0	.4	.1	.1	.7	5.1	20.8	6702	8.4
67/68	13.3	7.9	12.0	20.7	9.7	3.6	1.6	.4	.5	2.3	10.9	24.7	7023	8.8
65/66	9.8	3.4	9.6	15.6	13.2	5.8	3.4	2.3	2.1	5.6	16.1	18.6	6422	8.1
63/64	3.0	2.1	3.0	14.7	16.0	7.9	5.8	6.3	3.7	11.4	22.1	10.9	7203	9.1
61/62	.8	.7	1.3	5.1	13.1	6.1	3.2	4.9	3.6	13.8	16.2	4.1	3449	6.9
59/60	.3	.4	.6	6.2	13.7	11.3	6.1	4.9	6.5	15.1	11.9	2.3	3235	6.7
57/58	.2	.1	.3	2.8	11.8	13.3	7.7	6.3	10.7	16.6	6.6	1.2	3447	6.9
55/56	.1	.1	.3	1.4	7.5	17.6	13.1	11.9	20.5	15.6	3.4	.3	6209	7.8
53/54	.4	.0	.1	.3	3.8	14.6	16.9	17.1	18.7	8.3	2.3	.3	3331	7.1
51/52	.0	.0	.0	.1	1.7	8.8	18.0	16.9	17.4	4.7	1.4	.1	4413	3.6
49/50	.0	.0	.0	.1	1.2	4.4	13.1	12.8	8.4	3.3	.8	.1	1041	3.8
47/48	.0	.0	.0	.0	.2	1.6	3.0	9.9	5.1	1.6	.2	.0	1622	2.0
45/46	.0	.0	.0	.0	.2	1.4	2.5	4.4	2.4	.7	.1	.0	809	1.0
43/44	.0	.0	.0	.0	.0	.3	.8	.8	.7	.1	.0	.0	183	.2
41/42	.0	.0	.0	.0	.0	.1	.3	.2	.2	.0	.0	.0	49	.1
39/40	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	17	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	8777	6281	6919	7770	7533	7285	7182	7124	6219	5468	6003	3374	79442	100.0
MEAN	70.8	71.3	70.3	66.0	61.3	57.3	54.6	53.8	54.9	56.3	62.8	67.2	62.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1012	1013	1013	1013	1012	1013	1012	1013	3699
FEB	1013	1013	1013	1012	1014	1014	1013	1012	1013	3940
MAR	1013	1013	1013	1013	1013	1013	1013	1014	1013	4430
APR	1017	1016	1016	1013	1017	1016	1016	1013	1016	3238
MAY	1017	1017	1017	1017	1017	1017	1016	1016	1017	3006
JUN	1017	1017	1017	1016	1017	1017	1016	1016	1017	4318
JUL	1020	1020	1019	1019	1019	1019	1019	1018	1019	4364
AUG	1019	1019	1018	1019	1019	1019	1018	1018	1019	4643
SEP	1018	1019	1017	1018	1019	1019	1018	1018	1018	3398
OCT	1017	1017	1016	1016	1017	1017	1016	1016	1017	3484
NOV	1014	1014	1014	1014	1013	1014	1014	1014	1014	3702
DEC	1012	1013	1012	1012	1013	1013	1012	1011	1013	2906
ANN	1016	1016	1016	1013	1016	1016	1016	1013	1016	49659
OBS	6934	4443	6664	2705	9367	7018	7605	2721		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	1000	1003	1007	1013	1016	1022	1026	1033
FEB	994	1001	1003	1010	1013	1017	1022	1025	1033
MAR	994	1001	1003	1011	1013	1019	1024	1026	1032
APR	997	1001	1006	1012	1017	1020	1026	1028	1032
MAY	992	1000	1006	1013	1017	1021	1027	1030	1033
JUN	993	999	1004	1012	1017	1022	1028	1031	1034
JUL	993	1001	1007	1015	1019	1024	1029	1033	1038
AUG	993	1001	1006	1014	1019	1023	1029	1034	1040
SEP	996	1000	1006	1014	1018	1023	1029	1033	1038
OCT	994	1000	1006	1013	1017	1021	1027	1031	1037
NOV	994	999	1004	1011	1013	1018	1023	1026	1030
DEC	992	999	1003	1009	1013	1016	1022	1025	1031

PERIOD: (PRIMARY) 1906-1976
(OVER-ALL) 1971-1976

JANUARY

AREA 0013 BAHIA BLANCA
39.03 57.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.8	.0	.0	.0	.0	.0	.0	2.8	2.3	3.2	6.3	.9	1.8	.0	82.3
NE	1.4	.0	.0	.0	.0	.0	.0	1.4	3.2	2.1	2.8	.0	2.8	.0	87.7
E	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	93.3
SE	4.9	.0	.0	.0	.0	.0	.0	4.9	7.8	2.9	.0	.0	.0	.0	84.3
S	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	1.3	.0	.0	.0	.0	96.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	97.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	94.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	97.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	93.3
TOT PCT	1.3	.0	.0	.0	.0	.0	.0	1.3	2.2	1.7	2.6	.2	.9	.0	91.1
TOT OBS:	461														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	GRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST BLWG	NO SIG WEA
0600Z	.8	.0	.0	.0	.0	.0	.0	.8	4.7	2.4	3.1	.0	.8	.0	88.2
0610Z	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	6.3	4.2	.0	.0	.0	85.3
1201Z	.7	.0	.0	.0	.0	.0	.0	.7	2.2	.0	1.3	.7	2.2	.0	92.3
1802Z	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	2.6	.0	.9	.0	94.8
TOT PCT	1.3	.0	.0	.0	.0	.0	.0	1.3	2.3	1.9	2.8	.2	1.1	.0	90.4
TOT OBS:	471														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.1	7.6	9.9	2.4	.1	.0		21.1	12.9		18.0	24.4	27.0	29.1	20.3	18.4	22.8	16.8
NE	1.0	6.3	3.3	1.1	.0	.0		13.7	11.3		13.8	18.9	14.4	13.3	11.3	9.1	18.9	13.3
E	.6	2.6	2.3	.3	.0	.0		5.8	10.6		6.2	3.8	3.3	3.6	3.2	3.8	9.4	3.2
SE	.8	4.6	2.8	.4	.1	.0		8.7	10.9		10.7	9.1	6.1	8.9	8.3	8.8	3.1	9.1
S	1.2	3.6	4.0	1.1	.0	.0		11.8	11.0		13.1	13.4	9.1	10.1	8.3	13.7	3.3	13.3
SW	.3	3.0	4.9	1.4	.2	.0		12.1	13.2		13.6	6.1	13.7	8.3	12.4	12.1	18.6	13.6
W	.3	3.6	3.1	1.8	.1	.0		7.9	12.3		7.1	4.0	7.6	3.1	8.1	10.7	7.7	10.6
NW	1.0	3.6	7.3	1.4	.2	.0		13.6	12.7		7.7	17.7	9.8	17.7	21.8	19.8	12.7	11.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2			3.8	.6	3.0	1.9	4.0	3.3	3.3	4.2
TOT OBS	136	487	636	143	12	0	1604		11.7		287	184	99	188	303	317	114	163
TOT PCT	9.7	41.0	39.7	9.9	.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	4.5	9.8	6.3	.3	.0	21.1	12.9	20.3	28.3	19.4	19.3			
NE	4.0	6.7	2.9	.2	.0	13.7	11.3	18.9	13.1	10.2	14.8			
E	1.5	3.4	.9	.1	.0	5.8	10.6	7.3	3.4	4.3	8.9			
SE	2.8	4.2	1.4	.3	.0	8.7	10.5	10.1	8.6	8.7	6.6			
S	3.9	2.2	2.3	.4	.0	11.8	11.0	14.3	9.7	11.1	11.3			
SW	2.4	3.6	3.3	.6	.0	12.1	13.2	10.9	9.9	12.3	13.7			
W	2.2	3.6	1.9	.3	.0	7.9	12.3	6.0	6.0	9.4	9.4			
NW	3.3	7.3	4.2	.6	.0	13.6	12.7	11.3	14.7	20.7	12.1			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.2				.0	3.2	.0	2.7	2.3	3.7	3.9			
TOT OBS	490	785	372	47	0	1604	11.7	451	237	617	279			
TOT PCT	28.1	48.8	23.2	2.9	.0		100.0	100.0	100.0	100.0	100.0			

PERIOD: (PRIMARY) 1906-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0013 BAHIA BLANCA
29.65 57.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.7	7.1	43.0	39.2	7.5	.4	.0	11.3	100.0	491	
0600	2.3	7.0	42.8	36.6	10.9	.4	.0	11.9	100.0	297	
1200	3.7	6.8	28.7	39.1	10.7	1.0	.0	11.9	100.0	617	
1800	3.9	4.2	40.9	44.4	5.4	1.1	.0	11.4	100.0	279	
TOT	32	104	697	696	143	12	0	11.7		1804	
PCT	3.2	6.5	41.0	39.7	8.9	.7	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.5	3.8	6.9	4.7		4.3
NE	6.3	1.6	4.1	2.9		4.0
E	4.4	.7	1.2	.9		3.1
SE	2.6	1.5	.8	.8		3.0
S	3.9	1.5	1.7	1.4		3.3
SW	4.6	4.9	4.1	1.8		3.3
W	3.0	1.5	1.5	.5		2.8
NW	6.7	.7	3.5	.5		2.9
VAR	.0	.0	.0	.0		.0
CALM	1.8	.0	1.0	.5		3.0
TOT OBS	178	64	97	36	395	3.5
TOT PCT	45.1	16.2	24.6	14.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.0	.4	.5	1.6	2.6	.9	1.1	.0	.4	14.9	
NE	.3	.0	.6	.8	1.4	.7	.6	.1	.3	.3	10.1	
E	.0	.0	.0	.3	.4	.7	.9	.0	.0	.0	5.6	
SE	.0	.0	.0	.1	.5	.3	.9	.0	.0	.0	4.4	
S	.0	.0	.2	.2	.8	.5	.0	.0	.0	.3	6.6	
SW	.3	.0	.1	1.0	1.3	1.6	.0	.0	.0	.0	13.2	
W	.0	.0	.0	.0	.5	.3	.9	.0	.0	.0	7.2	
NW	.0	.0	.0	.0	.4	.8	.8	.0	.0	.1	9.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.8	.0	.0	.0	.0	2.3	
TOT OBS	4	0	5	11	27	34	15	5	1	4	99	999
TOT PCT	1.0	.0	1.3	2.8	6.8	8.6	3.5	1.3	.3	1.0	75.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0	>0
> OR									
> OR	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
> OR	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
> OR	4.3	5.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8
> OR	7.8	13.1	14.1	14.1	14.3	14.3	14.3	14.3	14.3
> OR	11.8	19.1	20.6	21.1	21.4	21.4	21.4	21.4	21.4
> OR	15.8	21.9	23.4	23.9	24.1	24.1	24.1	24.1	24.1
> OR	19.8	22.9	24.4	24.9	25.1	25.1	25.1	25.1	25.1
> OR	23.8	22.9	24.4	24.9	25.1	25.1	25.1	25.1	25.1
> OR	27.8	22.9	24.4	24.9	25.1	25.1	25.1	25.1	25.1
> OR	31.8	22.9	24.4	24.9	25.1	25.1	25.1	25.1	25.1
TOTAL	54	91	97	99	100	101	101	101	101

TOTAL NUMBER OF OBS: 999

PCT FREQ NM <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	39.7	7.6	13.1	9.6	6.7	3.1	6.7	5.7	11.0	1.0	420

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0013 BAHIA BLANCA
39.65 57.3W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.7	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.7	.2	.2	.7	.4	.4	.0	.0	.0	.0	3.7	3.7
	TOT %	1.7	.2	.2	.7	.4	.4	.0	.0	.0	.0	3.7	3.7
5<10	PCP	.2	.2	.0	.3	.2	.0	.0	.0	.0	.0	.9	.9
	NO PCP	4.2	4.2	.3	.9	1.9	2.2	2.0	2.2	.0	.2	18.0	18.0
	TOT %	4.4	4.4	.3	1.1	2.1	2.2	2.0	2.2	.0	.2	18.9	18.9
10+	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	18.2	10.3	6.3	3.8	3.9	13.3	3.8	8.9	.0	3.0	73.4	73.4
	TOT %	18.6	10.3	6.3	3.8	3.9	13.3	3.8	8.9	.0	3.0	73.4	73.4
TOT OBS		460											
TOT PCT		23.6	13.3	7.0	5.6	8.4	17.9	7.9	11.1	.0	3.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.3	.2	.0	.0	.0	.0	.2	.0	.0	.0	.7	.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.2	.0	.1	.0	.0	.0	.0	.2	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.1	.0	.0	.0	.0	.2	.0	.0	.7	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.2	.2	.4	.0	.0	.0	.0	1.3	1.3
	11-21	.6	.2	.3	.0	.2	.0	.0	.0	.0	.0	1.3	1.3
	22+	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	.6
	TOT %	1.3	.3	.3	.7	.4	.4	.0	.0	.0	.0	3.7	3.7
5<10	0-3	.1	.3	.1	.0	.0	.0	.0	.0	.0	.2	.7	.7
	4-10	1.1	1.3	.1	.3	1.6	1.1	.7	1.1	.0	.0	7.7	7.7
	11-21	2.0	2.0	.3	.3	.4	.7	.9	.6	.0	.0	7.9	7.9
	22+	.9	.4	.0	.0	.2	.2	.2	.2	.0	.0	2.0	2.0
	TOT %	4.1	4.2	.3	1.1	2.2	2.0	1.8	2.0	.0	.2	17.9	17.9
10+	0-3	.4	.2	.0	.2	.2	.3	.0	.0	.0	2.9	4.2	4.2
	4-10	3.4	4.1	2.2	1.6	3.8	3.8	2.1	3.7	.0	.0	28.8	28.8
	11-21	7.3	3.3	3.4	1.8	3.8	6.7	3.4	3.4	.0	.0	37.2	37.2
	22+	2.0	.8	.4	.0	.0	1.9	.4	.3	.0	.0	6.6	6.6
	TOT %	13.3	10.3	6.0	3.8	8.4	14.7	5.9	9.4	.0	2.9	76.7	76.7
TOT OBS		346											
TOT PCT		21.5	13.1	7.1	5.5	11.0	17.0	8.1	11.6	.0	3.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1906-1976
(OVER-ALL) 1871-1976

AREA 0013 BAHIA BLANCA
39.65 97.34

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	3.4	4.3	9.4	10.3	1.7	.0	.0	.0	29.9	70.1	117
06009	2.9	.3	.0	2.9	1.5	8.8	2.9	2.9	.0	.0	22.1	77.9	68
12015	.0	.0	.0	2.5	9.0	9.0	4.9	1.6	.8	2.5	30.3	69.7	122
18021	1.0	.0	1.0	1.0	4.8	4.8	2.9	1.0	1.0	1.0	16.3	81.7	104
TOT	4	0	5	11	28	34	13	5	2	4	106	305	411
PCT	1.0	.0	1.2	2.7	6.8	8.3	3.2	1.2	.5	1.0	25.8	74.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.0	1.3	3.3	25.3	68.7	150
06009	1.8	.9	.9	4.5	23.4	68.5	111
12015	.0	.0	.6	1.2	13.3	84.7	103
18021	.0	.0	.8	.8	.0	84.2	132
TOT	4	1	5	20	101	423	596
PCT	.7	.2	.9	3.6	16.2	76.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <3000	<6.0 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.9	4.4	16.8	16.8	66.4	113
06009	3.1	4.7	7.8	15.6	76.6	64
12015	.0	.0	3.3	26.7	70.0	120
18021	.0	.0	3.0	14.9	82.2	101
TOT	3	8	31	76	291	398
PCT	.8	2.0	7.8	19.1	73.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.5	.0	1.0	.0	.0	3	1.3
70/74	.0	.0	.0	.0	1.5	2.1	3.4	2.1	18	9.3
65/69	.0	.0	.0	.5	1.5	8.2	13.4	10.3	66	34.0
60/64	.0	.0	.0	.5	5.2	7.2	11.3	10.8	68	35.1
55/59	.0	.0	.0	.0	1.5	3.6	9.3	4.1	38	18.6
50/54	.0	.0	.0	.0	.0	.0	1.5	.0	3	1.5
TOTAL	0	0	0	3	19	43	73	56	194	100.0
PCT	.0	.0	.0	1.5	9.8	22.2	37.6	28.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.5	.0	1.0	.0	.0
70/74	4.0	1.4	.4	1.0	.0	.5	.0	1.9	.0	.0
65/69	9.7	4.4	4.6	1.0	3.4	3.4	3.2	4.4	.0	.0
60/64	3.3	8.0	2.1	2.6	4.0	4.9	3.9	3.4	.0	1.0
55/59	4.6	.9	1.8	3.7	3.1	3.4	.9	.1	.0	.0
50/54	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0
TOTAL	23.6	13.2	8.9	8.9	10.4	13.1	8.0	10.8	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	73	71	69	34	30	45	62.4	444
06009	74	75	70	62	33	49	43	61.8	234
12015	83	77	73	64	56	52	44	64.1	383
18021	86	31	75	67	39	34	44	66.9	232
TOT	86	77	73	64	35	30	44	63.8	1536

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	3.9	19.6	41.2	35.3	85	51		
06009	.0	2.1	6.4	19.1	31.9	40.4	65	47		
12015	.0	2.0	12.0	16.0	46.0	24.0	53	50		
18021	.0	2.0	16.0	34.0	32.0	16.0	79	50		
TOT	0	3	19	44	75	97	81	198		

JANUARY

PERIOD: (PRIMARY: 1966-1976)
(OVER-ALL: 1971-1976)

AREA 0013 SANTA BLANCA
39.05 57.30

TABLE 17

PCT PRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PDC (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	4 PDC	NO PBL
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2	.2
16/16	.0	.0	.0	.0	.2	.0	.7	.2	.2	.0	6	.0	1.4
11/13	.0	.0	.0	.2	.5	.2	1.2	1.2	.0	.2	15	.0	3.0
9/16	.0	.0	.5	.2	.2	1.2	1.0	.0	.5	.0	15	.0	3.0
7/8	.0	.0	.0	.2	.2	3.1	2.1	.0	.2	.0	25	.2	5.7
6	.0	.0	.0	.5	.5	1.9	.2	.0	.0	.0	13	.0	3.1
5	.0	.0	.7	1.0	1.9	4.0	.7	.0	.0	.0	30	.2	8.8
4	.0	.2	.5	.2	4.3	1.9	.0	.0	.0	.0	29	.2	6.4
3	.0	.5	.2	1.0	3.0	2.4	.2	.2	.0	.0	35	.2	8.1
2	.7	.7	.5	3.1	4.5	1.5	.2	.0	.0	.0	43	.0	10.2
1	.0	.2	.5	3.1	3.0	1.4	.2	.0	.0	.0	39	.2	9.0
0	.0	.0	2.1	3.0	3.0	.0	.5	.0	.0	.0	42	.0	10.0
-1	.0	.2	.2	3.3	2.4	.2	.0	.0	.0	.0	27	.5	5.9
-2	.0	.2	1.4	2.4	1.4	.5	.0	.0	.0	.0	25	.2	5.7
-3	.0	.2	1.9	1.4	1.0	.0	.0	.0	.0	.0	19	.2	4.3
-4	.0	.2	1.7	2.1	.5	.0	.0	.0	.0	.0	19	.0	4.5
-5	.0	.0	1.2	.7	.7	.0	.0	.0	.0	.0	11	.2	2.4
-6	.0	.5	1.0	.2	.0	.0	.0	.0	.0	.0	7	.2	1.4
-7/-8	.2	.5	.7	.2	.0	.2	.0	.0	.0	.0	8	.2	1.7
-9/-10	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	4	.0	1.0
TOTAL	9	54	101	124	70	70	7	6	1	421	13	490	
PCT	.7	3.8	12.8	24.0	29.5	18.0	7.1	1.7	1.4	.2	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1969-1976

TABLE 18

PCT PRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.4	.0	.0	.0	2.7	.4	1.0	.0	.0	.0	.0	2.1
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	1.1	.7	.0	.0	.0	1.8
3-4	.0	1.3	3.1	.4	.0	.0	5.8	.0	2.3	3.2	.0	.0	.0	5.5
5-6	.0	1.0	3.0	.7	.0	.0	5.7	.0	.1	1.8	.4	.0	.0	2.3
7	.0	.0	2.6	1.1	.0	.0	3.7	.0	.0	2.0	.7	.0	.0	2.7
8-9	.0	.0	.3	.4	.0	.0	.6	.0	.0	.4	.7	.0	.0	1.1
10-11	.0	.0	.7	1.3	.0	.0	2.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	12.1	4.3	.0	.0	22.9	.4	9.3	8.2	2.2	.0	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	.1	.0	.0	.0	.0	1.1	.0	.1	.7	.0	.0	.0	1.1
3-4	.0	1.2	1.3	.0	.0	.0	2.5	.0	1.1	.7	.0	.0	.0	1.8
5-6	.0	.4	.6	.0	.0	.0	1.0	.0	.4	.4	.0	.0	.0	.4
7	.0	.4	2.0	.4	.0	.0	2.7	.0	.4	.7	.0	.0	.0	1.1
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.3	.7	.0	.0	8.0	.4	1.6	2.1	.4	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1976

JANUARY

AREA 0013 SANIA BLANCA
39.05 97.34

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.6	.4	.0	.0	.0	2.2	.0	2.0	.4	.0	.0	.0	3.0
3-4	.0	1.7	.7	.0	.0	.0	2.4	.0	2.0	1.3	.0	.0	.0	4.3
5-6	.0	.4	1.0	.3	.0	.0	1.6	.0	.4	.6	.1	.0	.0	1.3
7	.0	.0	.3	.4	.0	.0	.6	.0	.4	1.3	.4	.0	.0	2.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	2.3	.9	.0	.0	6.6	.0	7.8	3.9	.8	.0	.0	10.5

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.4	.0	.0	.0	1.3	.0	1.0	.0	.0	.0	.0	1.6	
1-2	.0	2.1	.7	.0	.0	.0	2.8	.0	1.1	1.3	.0	.0	.0	2.6	
3-4	.0	.7	1.9	.0	.0	.0	3.0	.0	1.8	2.0	.0	.0	.0	3.9	
5-6	.0	.4	.4	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.4	.0	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.4	
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.7	
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.4	.0	.0	.0	.4	.0	.4	.0	.4	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.4	4.0	.7	.0	.0	9.2	.0	4.9	3.7	.7	.4	.0	11.7	95.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	9.9	.7	.0	.0	.0	13.8	
1-2	.0	11.6	3.9	.0	.0	.0	15.5	
3-4	.0	13.0	14.4	.7	.0	.0	28.2	
5-6	.0	2.3	9.2	1.4	.0	.0	13.0	
7	.0	1.4	10.9	2.8	.0	.0	15.1	
8-9	.0	.0	2.1	1.4	.4	.0	3.9	
10-11	.0	.0	1.8	2.1	.0	.0	3.9	
12	.0	.0	.4	.7	.0	.0	1.1	
13-16	.0	.4	1.4	1.8	.0	.0	3.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	38.7	44.7	10.9	.4	.0	100.0	284

PERIOD: (OVER-ALL) 1950-1976

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	8.6	19.3	10.7	6.1	1.3	1.8	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	4
6-7	.0	.3	7.7	4.3	7.4	1.2	1.3	.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
8-9	.0	.0	3.1	1.2	2.3	1.2	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
10-11	.0	1.8	.3	.3	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
12-13	.0	.0	.3	.9	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDEX	2.7	1.3	1.2	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	2
TOTAL	21	40	104	60	37	19	12	3	10	0	0	0	0	0	0	0	0	0	0	324	5
PCT	6.4	12.3	31.9	18.4	17.3	5.8	3.7	.9	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1968-1976
(OVER-ALL) 1871-1976AREA 0013 SANIA BLANCA
39.65 57.4N

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS WD PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNC DUST BLNG SNOW	NO SIG NEA
N	.9	.5	.0	.0	.0	.0	.0	1.4	1.1	1.5	4.3	.0	1.0	.0	91.0
NE	.8	1.3	.0	.0	.0	.0	.0	2.1	1.2	.0	5.9	.0	.0	.0	90.8
E	.0	1.2	.0	.0	.0	.0	.0	1.2	2.4	2.4	9.5	.0	1.2	.0	83.4
SE	6.3	19.5	.0	.0	.0	.0	.0	21.8	.7	.0	5.6	.0	1.4	.0	70.4
S	2.0	4.6	.9	.0	.0	.0	.0	7.4	.9	1.1	.0	.0	.0	.0	91.7
SW	.0	.9	.2	.0	.0	.0	.0	1.1	7.4	.9	.4	.0	.0	3.8	86.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.1	3.2	.0	.0	3.7	90.5
NW	1.5	.0	.0	.0	.0	.0	.0	1.5	1.5	2.2	.0	.0	1.5	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	7.7	.0	.0	.0	.0	.0	7.7	.0	.0	3.8	.0	.0	.0	88.5
TOT PCT	1.0	2.1	.1	.0	.0	.0	.0	3.3	2.1	1.0	3.5	.0	.5	.8	89.1
TOT OBS:	769														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS WD PCPN	FGS WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0600	1.9	2.4	.3	.0	.0	.0	.0	4.3	2.4	1.9	5.2	.0	.0	.5	86.7
0600	.6	1.9	.6	.0	.0	.0	.0	3.1	1.2	2.3	1.2	.0	.0	1.2	90.7
1200	1.0	1.4	.0	.0	.0	.0	.0	2.4	1.9	.5	5.3	.0	1.0	1.0	88.0
1800	.5	3.0	.0	.0	.0	.0	.0	3.3	3.0	.0	2.0	.0	1.0	.5	90.0
TOT PCT TOT OBS:	1.0 782	2.2	.1	.0	.0	.0	.0	3.3	2.2	1.2	3.6	.0	.5	.8	88.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	MO' R (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.9	7.3	10.0	2.2	.2	.0		20.3	13.2		13.9	21.4	30.6	22.7	26.4	14.7	19.0	17.9
NE	1.0	6.8	7.3	.8	.0	.0		19.9	11.9		21.5	15.4	15.3	13.2	13.2	12.7	23.6	12.7
E	.6	3.0	1.6	.2	.1	.0		5.5	9.7		5.8	5.5	3.9	3.7	4.4	6.6	4.0	3.8
SE	1.0	4.5	2.4	.7	.1	.0		8.8	10.6		10.3	10.0	6.6	8.0	7.3	9.7	7.7	8.9
S	.7	5.1	6.4	2.0	.2	.0		14.4	19.3		14.1	12.4	14.8	14.0	11.6	18.0	13.3	16.6
SW	.8	4.4	4.3	1.7	.3	.1		11.8	14.6		12.6	11.0	7.9	11.0	12.4	9.9	19.0	11.1
W	.7	3.1	2.1	.6	.0	.0		6.3	10.9		7.2	4.6	3.4	6.6	6.3	8.8	4.4	8.4
NW	1.0	4.7	3.1	1.4	.2	.0		12.8	19.0		8.4	14.3	8.3	19.6	14.8	16.1	7.2	19.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALP	3.8							3.8	.0		4.3	3.1	7.0	3.2	3.3	3.4	1.6	3.0
TOT OBS	241	879	897	217	30	4	2268		12.1		423	234	186	221	339	377	192	236
TOT PCT	10.6	38.8	39.4	9.6	1.3	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.3	10.6	3.6	.7	.0		20.3	13.2	17.0	26.4	20.7	18.4	
NE	3.4	8.6	3.8	.2	.0		19.9	11.9	19.3	14.3	13.0	17.6	
E	2.1	2.6	.6	.2	.0		5.5	9.7	5.8	3.8	3.9	3.0	
SE	2.8	4.6	1.1	.3	.0		8.8	10.6	10.2	7.4	8.6	8.4	
S	2.8	6.8	4.0	.7	.1		14.4	13.3	13.5	14.4	14.7	13.2	
SW	2.2	3.4	2.9	.9	.3		11.8	14.6	12.1	9.6	11.2	14.7	
W	2.2	3.0	1.0	.3	.0		6.3	10.9	6.3	3.1	7.3	6.6	
NW	2.3	6.4	3.3	.6	.0		12.8	13.0	10.3	12.3	13.5	11.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALN	3.8						3.8	.0	4.6	4.9	3.4	2.3	
TOT OBS	373	1091	309	86	9	2268		12.1	637	407	776	428	
TOT PCT	28.3	48.1	22.4	3.8	.4		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1971-1976AREA 0013 SANJA BLANCA
39.63 37.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	4.6	6.3	39.3	37.7	10.0	1.3	.3	12.0	100.0	687
0400Z	4.9	4.4	35.9	43.5	9.8	1.3	.0	12.6	100.0	407
1201Z	3.4	8.3	37.5	39.0	10.2	1.3	.1	12.1	100.0	776
1802Z	2.3	6.3	43.0	39.3	7.3	.9	.2	11.8	100.0	428
TOT	86	195	879	897	217	30	4	12.1		2260
PCT	3.8	8.6	38.8	39.6	9.6	1.3	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	13.1	3.3	5.4	1.4		2.9
NE	13.3	1.2	4.0	1.8		2.3
E	2.1	.6	.7	1.1		3.5
SE	1.7	.4	.6	2.2		4.8
S	6.3	1.4	3.0	1.2		3.0
SW	4.0	3.3	6.5	2.3		4.3
W	5.6	1.0	1.5	.2		2.4
NW	4.4	1.2	2.4	.5		3.0
VAR	.0	.0	.0	.0		.0
CALM	2.6	.2	.6	1.0		3.0
TOT OBS	319	78	156	73	626	3.0
TOT PCT	31.0	12.5	24.9	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/M) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.1	.0	.0	.4	.6	1.4	.7	.2	.6	.4	18.9	
NE	.2	.0	.2	.4	1.1	2.0	.2	.0	.0	.1	18.1	
E	.0	.0	.0	.4	.6	.2	.0	.0	.0	.2	3.1	
SE	.5	.0	.0	.2	.6	.8	.2	.0	.2	.0	2.6	
S	.0	.0	.0	.5	1.1	1.7	.7	.2	.2	.0	7.8	
SW	.0	.0	.0	.7	2.0	3.1	.9	.0	.0	.4	8.9	
W	.0	.0	.0	.1	.3	.3	.0	.0	.2	.2	4.8	
NW	.0	.0	.0	.2	.4	.3	.2	.2	.2	.0	6.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.2	.6	.9	.0	.0	.0	2.9	
TOT OBS	7	0	1	18	43	68	22	2	7	8	480	626
TOT PCT	1.1	.0	.2	2.9	6.9	10.9	3.5	.3	1.1	1.3	71.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

	CEILING (FEET)	> OR >10	> OR >8	> OR >2	VSBY (NM) > OR >1	> OR >1/2	> OR >1/4	> OR >50YD	> OR >0
> OR >4500	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
> OR >3000	1.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
> OR >2500	2.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
> OR >2000	8.0	15.2	16.8	16.8	17.0	17.0	17.0	17.0	17.0
> OR >1000	11.6	20.8	23.4	23.9	24.0	24.0	24.0	24.0	24.0
> OR >600	12.7	23.9	26.8	27.0	27.1	27.1	27.1	27.1	27.1
> OR >300	12.9	24.0	26.6	27.1	27.3	27.3	27.3	27.3	27.3
> OR >150	12.9	24.0	26.6	27.1	27.3	27.3	27.3	27.3	27.3
> OR >0	12.9	24.0	27.0	27.8	28.1	28.3	28.6	28.6	28.6
TOTAL	79	147	165	170	172	173	175	175	175

TOTAL NUMBER OF OBS: 612

PCT FREQ NM <5/8: 71.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	40.1	9.2	8.0	8.0	5.3	5.3	8.0	4.8	10.0	1.2	673

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976AREA 0013 BAHIA BLANCA
39.6S 57.4W

TABLE 8

PERCENT FREE OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.7	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.7	
1<2	PCP	.1	.0	.0	.1	.1	.1	.0	.0	.0	.1	.7	
	NO PCP	.2	.1	.1	.2	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.3	.1	.1	.3	.2	.1	.0	.0	.0	.1	1.3	
2<3	PCP	.1	.2	.0	.4	.3	.0	.0	.0	.0	.1	1.0	
	NO PCP	1.0	2.0	.1	.3	.4	.3	.3	.3	.0	.1	3.9	
	TOT %	1.1	2.1	.1	.8	.6	.3	.3	.3	.0	.3	4.4	
3<10	PCP	.1	.1	.1	.2	.4	.0	.0	.1	.0	.0	1.0	
	NO PCP	3.1	3.1	1.8	.7	3.1	4.3	2.0	4.0	.0	.8	29.9	
	TOT %	3.3	3.2	1.8	.9	3.5	4.3	2.0	4.1	.0	.8	30.9	
10+	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	10.1	11.0	3.2	2.1	7.0	9.3	3.8	4.2	.0	2.2	39.9	
	TOT %	10.1	11.0	3.2	2.1	7.1	9.6	3.8	4.2	.0	2.2	40.1	
TOT OBS													769
TOT PCT													

TABLE 9

PERCENT FREE OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.3	.1	.1	.1	.0	.0	.0	.1	.0	.0	.7	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.1	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.2	.1	.0	.0	.0	.2	.0	.1	1.4	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	
1<2	0-3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.1	.6	
	4-10	.3	.1	.0	.0	.0	.1	.1	.2	.0	.0	.6	
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.1	.2	.2	.1	.1	.2	.0	.1	1.6	
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.5	.1	.3	.1	.1	.0	.3	.0	.0	1.8	
	11-21	.6	1.2	.0	.2	.3	.3	.2	.2	.0	.0	3.2	
	22+	.2	.2	.0	.2	.2	.2	.2	.1	.0	.0	1.2	
	TOT %	1.1	1.9	.1	.9	.7	.6	.4	.5	.0	.2	6.5	
3<10	0-3	.0	.4	.1	.1	.1	.1	.1	.1	.0	1.0	1.6	
	4-10	2.3	1.3	1.0	.4	1.1	1.4	1.3	1.8	.0	.0	10.9	
	11-21	4.2	2.6	.4	.4	1.6	1.6	.7	1.7	.0	.0	13.3	
	22+	.7	.3	.2	.3	.6	.9	.2	.3	.0	.0	3.6	
	TOT %	7.4	4.7	1.3	1.2	3.4	4.0	2.3	4.0	.0	1.0	29.4	
10+	0-3	.2	.2	.3	.2	.2	.1	.4	.1	.0	2.3	3.8	
	4-10	4.0	3.1	1.9	1.8	2.8	3.4	1.6	1.9	.0	.0	20.3	
	11-21	8.8	7.0	1.4	.9	4.2	3.8	1.4	3.2	.0	.0	30.8	
	22+	2.0	.3	.1	.1	.4	1.4	.4	.5	.0	.0	5.4	
	TOT %	15.1	10.8	3.6	2.9	7.6	8.6	3.9	5.7	.0	2.3	60.3	
TOT OBS													973
TOT PCT													

FEBRUARY

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976AREA 0013 SAMIA BLANCA
39.85 57.41

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.2	.0	.0	3.4	7.3	12.9	1.7	.0	1.1	1.7	30.3	69.7	178
06009	1.8	.0	.0	1.8	1.8	2.7	3.4	.0	2.7	.0	16.2	83.8	111
12015	.3	.0	.0	3.8	6.0	14.3	3.3	.3	1.1	.3	30.2	69.8	182
18021	.3	.0	.3	2.2	9.7	9.2	3.8	.3	.0	2.2	28.6	71.4	183
TOT PCT	6 1.2	0 .0	1 .2	19 2.9	44 6.7	69 10.3	22 3.4	2 .3	7 1.1	8 1.2	180 27.4	476 72.6	636 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	1.5	.7	1.8	10.6	30.4	54.9	273
06009	1.5	.0	1.3	3.3	33.9	58.0	206
12015	1.9	.7	1.3	4.1	26.9	64.9	280
18021	1.2	.4	1.7	3.4	23.2	66.1	242
TOT PCT	19 1.5	2 .3	10 1.6	14 1.9	290 29.3	399 60.6	989 100.0

TABLE 12

CUMULATIVE PCT FREE OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.3	2.3	17.4	20.3	62.2	172
06009	2.3	2.3	10.3	12.8	76.7	86
12015	.6	.6	6.9	24.6	68.2	173
18021	.6	1.7	9.9	21.0	69.1	181
TOT PCT	8 1.3	10 1.6	69 11.3	127 20.8	416 68.0	612 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.3	.3	.6	.3	.3	.0	6	1.9
70/74	.0	.0	.6	.3	1.9	3.9	4.2	2.6	42	13.3
65/69	.0	.0	.0	1.3	6.1	9.4	10.6	10.0	110	37.4
60/64	.0	.0	.0	.6	4.3	4.8	9.7	7.4	84	27.1
55/59	.0	.0	.0	1.0	2.9	4.3	6.3	2.9	33	17.7
50/54	.0	.0	.0	.0	.3	.3	.6	1.0	7	2.3
TOTAL PCT	0 .0	0 .0	3 1.0	11 3.3	31 16.8	72 23.2	99 31.9	74 23.9	310	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	1.0	.3	.0	.0	.3	.0	.1	.0	.0
70/74	9.2	2.9	.6	.0	1.3	1.0	1.0	1.3	.0	.0
65/69	11.0	6.7	3.1	1.9	3.2	1.3	2.4	6.3	.0	1.3
60/64	8.3	2.9	1.3	2.1	4.4	4.0	.6	3.3	.0	.3
55/59	3.1	.9	1.9	.6	1.9	6.9	1.3	.8	.0	.0
50/54	.8	.3	.0	.0	.0	1.0	.0	.0	.0	.0
TOT	28.7	14.8	7.2	4.7	11.0	14.7	9.3	11.8	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	73	64	55	51	30	63.7	633
06009	78	75	72	64	54	52	49	63.3	408
12015	80	77	74	63	56	53	31	63.0	746
18021	86	82	78	68	57	54	33	67.3	401
TOT	86	79	73	63	53	52	49	64.8	2208

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.1	11.6	20.9	32.6	26.7	80	36	36	36
06009	.0	.0	11.6	24.6	37.7	26.1	82	69	69	69
12015	.0	4.9	18.3	18.3	32.9	23.6	81	82	81	82
18021	.0	3.7	23.2	26.8	23.6	20.7	78	82	78	82
TOT	0	14	32	72	102	79	80	319	319	319

FEBRUARY

PERIOD: (PRIMARY) 1900-1976
(OVER-ALL) 1971-1976AREA 0013 SANJA BLANCA
39.05 57.00

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIFF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.4	5	.0	.7
11/13	.0	.0	.0	.0	.0	.0	1.1	.9	.5	19	.0	2.5
9/10	.0	.0	.0	.1	.1	.7	1.3	1.1	.1	26	.1	3.3
7/8	.0	.0	.1	.3	.0	2.0	1.3	1.2	.0	38	.0	5.1
6	.0	.0	.0	.4	.7	1.1	.7	.0	.0	21	.0	2.8
5	.0	.3	.3	.0	1.2	2.3	2.8	.3	.0	49	.4	6.1
4	.0	.4	.0	.7	2.6	5.1	1.2	.1	.0	71	.1	9.3
3	.0	.1	.4	.4	3.1	3.7	.4	.0	.0	61	.3	7.8
2	.1	.3	.3	1.9	3.6	2.7	.0	.1	.0	82	.9	10.0
1	.0	.4	.8	.8	4.0	2.3	.0	.0	.0	62	.9	7.7
0	.3	.5	.9	1.9	6.3	.8	.0	.0	.0	88	.4	10.2
-1	.0	.1	.9	1.3	3.6	.5	.0	.0	.0	49	.1	6.4
-2	.0	.1	.7	4.3	2.7	.3	.0	.0	.0	40	.4	5.6
-3	.0	.4	1.3	2.3	1.7	.1	.0	.0	.0	44	.1	5.7
-4	.0	.1	1.2	1.3	1.1	.4	.0	.0	.0	31	.1	4.0
-5	.0	.3	1.2	2.0	.4	.0	.0	.0	.0	29	.0	3.9
-6	.0	.1	.4	.3	.0	.0	.0	.0	.0	6	.0	.8
-7/-8	.0	.3	.4	.5	.1	.0	.0	.0	.0	10	.0	1.3
-9/-10	.0	.3	.3	.0	.0	.0	.0	.0	.0	4	.0	.5
-11/-13	.0	.1	.0	.1	.0	.0	.0	.0	.0	2	.0	.3
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	30	69	139	245	167	81	29	9	752	27	725
PCT	.4	4.0	9.2	18.5	32.0	22.2	8.1	3.9	1.2	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.7	.2	.0	.0	.0	2.0	41	.1	.9	.1	.0	.0	.0	1.1
1-2	.0	2.7	1.0	.0	.0	.0	3.6	1-2	.0	1.3	.3	.0	.0	.0	1.6
3-4	.0	1.3	2.2	.2	.0	.0	6.7	3-4	.0	1.0	3.4	.0	.0	.0	6.4
5-6	.0	.2	4.0	.2	.0	.0	4.3	5-6	.0	.7	2.8	.2	.0	.0	3.7
7	.0	.2	1.9	.0	.0	.0	2.1	7	.0	.3	3.4	.0	.0	.0	3.7
8-9	.0	.0	.4	1.4	.0	.0	1.8	8-9	.0	.0	1.1	.4	.0	.0	1.5
10-11	.0	.0	.9	.6	.0	.0	1.5	10-11	.0	.0	1.2	.9	.0	.0	2.1
12	.0	.0	.0	.2	.0	.0	.2	12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.2	.2	.0	.0	.4	13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.0	13.7	2.8	.0	.0	22.6	TOT PCT	.1	4.2	14.4	1.9	.0	.0	20.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.4	.6	.0	.0	.0	.0	1.0	41	.2	.4	.0	.0	.0	.0	.6
1-2	.0	1.0	.4	.0	.0	.0	1.4	1-2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	.2	.6	.0	.0	.0	.9	3-4	.0	.9	.9	.0	.0	.0	1.8
5-6	.0	.2	.3	.0	.0	.0	.7	5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.2	.0	.0	.0	.0	.2	7	.0	.1	.3	.2	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	1.6	.0	.0	.0	4.2	TOT PCT	.2	2.3	2.3	.2	.0	.0	5.0

PERIOD: (OVER-ALL) 1963-1976

FEBRUARY

AREA 0013 SANTA RANCA
39.05 57.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.9	.0	.0	.0	.0	3.0	.0	2.1	.4	.0	.0	.0	2.5
3-4	.0	1.5	3.4	.2	.0	.0	5.0	.0	3.1	2.5	.3	.0	.0	6.0
5-6	.0	.0	1.0	.2	.0	.0	2.0	.0	.0	1.0	.4	.2	.0	1.6
7	.0	.0	.0	.0	.0	.0	.3	.0	.0	1.7	.4	.0	.0	2.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	6.8	.9	.0	.0	12.4	.2	5.9	5.8	2.2	1.1	.0	15.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.9	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.0	.2	.0	.0	.0	.8	.2	1.3	1.4	.0	.0	.0	2.9	
3-4	.0	1.4	.8	.2	.0	.0	2.3	.0	.5	.7	.0	.0	.0	1.2	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.5	.5	.2	.0	.0	1.2	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.9	.2	.0	.0	1.1	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.8	2.1	.6	.0	.0	5.7	.2	2.8	3.9	.9	.0	.0	7.8	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	6.0	.2	.0	.0	.0	14.0	
1-2	.2	12.3	5.2	.2	.0	.0	17.9	
3-4	.0	9.9	19.4	.9	.0	.0	30.2	
5-6	.0	1.7	11.7	1.3	.2	.0	14.9	
7	.0	.6	9.1	.9	.0	.0	10.6	
8-9	.0	.0	2.4	2.2	.0	.0	4.5	
10-11	.0	.0	2.4	2.4	.6	.0	5.4	
12	.0	.0	.0	.6	.0	.0	.5	
13-16	.0	.0	.2	1.3	.0	.0	1.5	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.0	30.9	50.3	9.5	1.1	.0	100.0	463

PERIOD: (OVER-ALL) 1951-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	7.5	18.3	7.4	3.8	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227	3
6-7	.2	1.8	3.2	3.9	4.1	2.2	2.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	6
8-9	.0	.8	1.4	2.2	1.4	.8	1.1	.8	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.4	.9	.4	.7	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
12-13	.0	.0	.3	.4	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
13-15	.0	.0	.0	.2	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDRY	3.9	6.6	3.0	2.3	3.1	2.7	.7	.0	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
TOTAL	40	94	163	104	80	25	27	5	14	3	0	0	0	0	0	0	0	0	0	557	5
PCT	7.2	16.9	29.6	18.7	14.4	4.5	4.8	.9	2.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

MARCH

AREA 0013 BAHIA BLANCA
39.65 57.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	
N	.5	2.3	.3	.0	.0	.0	.0	4.2	1.7	1.9	7.1	.0	1.8	.0	89.2
NE	.8	3.3	1.3	.0	.0	.0	.7	6.2	.3	1.5	12.0	.7	.2	.0	79.3
E	3.2	1.4	.0	.0	.0	.0	.0	4.6	9.2	1.4	12.4	.6	.0	.0	73.9
SE	3.0	.7	4.0	.0	.0	.0	.0	3.0	1.3	1.3	2.7	.0	.0	.0	89.6
S	1.6	.3	.0	.0	.0	.0	.0	1.9	1.3	.6	1.9	.0	.0	.0	94.5
SW	1.6	2.3	.0	.0	.0	.0	.7	4.6	1.4	.7	1.4	.0	.0	.4	92.1
W	1.7	3.1	.0	.0	.0	.0	1.7	6.5	.8	3.9	2.3	.0	1.1	.0	87.9
NW	.0	.2	.0	.0	.0	.0	.9	1.2	.0	1.9	3.2	.0	.9	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	6.4	.0	.0	.0	89.5
TOT PCT	1.2	1.8	.3	.0	.0	.0	.4	3.7	1.5	1.4	5.3	.1	.3	.1	88.0
TOT OBS:	1238														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								SIG
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	
0600Z	1.6	3.2	.6	.0	.0	.0	.3	3.4	2.3	2.3	6.1	.0	.0	.0	84.4
0800Z	1.4	.0	.4	.0	.0	.0	.4	2.1	1.8	2.1	2.9	.0	.0	.0	91.1
1200Z	1.8	.9	.6	.0	.0	.0	.9	3.9	.6	1.3	7.8	.0	1.3	.3	85.6
1800Z	.6	2.8	.3	.0	.0	.0	.0	3.7	1.2	.0	4.3	.3	.3	.0	90.2
TOT PCT	1.4	1.8	.3	.0	.0	.0	.4	3.8	1.5	1.3	5.3	.1	.3	.1	87.7
TOT OBS:	1294														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	7.0	6.3	1.4	.0	.0	13.8	12.0	12.9	19.2	18.8	16.9	16.9	14.5	15.4	13.7	
NE	1.3	6.0	4.1	.2	.0	.0	11.7	9.3	13.9	12.8	15.2	11.6	10.2	9.2	8.4	11.7	
E	.6	3.2	1.1	.2	.0	.0	5.1	8.6	3.4	4.9	9.0	6.2	3.6	5.3	6.7	4.7	
SE	.8	4.9	2.7	.3	.0	.0	8.8	9.7	9.7	11.5	4.7	10.2	7.3	10.2	6.9	10.6	
S	1.0	6.9	7.4	1.8	.2	.1	17.3	12.9	18.6	17.1	18.0	15.7	18.1	13.3	18.6	17.0	
SW	.9	4.9	6.9	2.4	.4	.2	13.2	14.8	17.6	12.8	14.9	12.2	15.6	12.9	20.3	12.0	
W	.8	3.9	2.3	.3	.1	.2	8.0	12.1	7.2	6.3	6.3	8.7	7.4	10.0	8.8	10.4	
NW	.6	3.4	3.1	1.3	.2	.0	12.6	12.8	7.5	12.8	7.0	14.9	14.2	17.2	8.8	17.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4						3.4	.0	3.2	2.4	10.1	3.6	6.4	3.2	6.1	2.3	
TOT OBS	363	1229	1078	239	26	12	2944	11.4	361	286	317	279	360	366	311	264	
TOT PCT	12.3	41.7	36.3	8.1	.9	.4		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.4	8.6	3.4	.4	.0	13.8	12.0	13.1	18.0	13.9	14.6
NE	4.1	6.3	1.3	.0	.0	11.7	9.3	13.3	13.3	9.8	10.0
E	2.6	1.9	.6	.1	.0	5.1	8.6	3.2	2.3	4.3	3.8
SE	3.1	4.3	1.1	.1	.0	8.8	9.7	10.3	7.3	8.6	6.6
S	4.0	8.4	4.3	.7	.1	17.3	12.9	18.1	16.9	17.1	17.9
SW	3.2	6.1	4.6	1.0	.2	13.2	14.8	16.0	13.6	14.6	16.3
W	2.4	3.9	1.1	.4	.2	8.0	12.1	7.0	7.4	8.4	9.3
NW	2.6	6.3	3.0	.6	.1	12.6	12.8	10.6	10.7	13.4	12.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4					3.4	.0	4.3	7.0	5.9	4.3
TOT OBS	903	1394	373	96	16	2944	11.4	847	596	926	373
TOT PCT	30.7	46.0	12.3	3.3	.5		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1860-1970

MARCH

APEA 0013 SANIA BLANCA
39.65 57.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	4.3	8.9	43.3	33.5	8.9	.9	.2	11.2	100.0	847
0600	7.0	1.4	38.8	39.4	8.2	.8	.3	11.5	100.0	596
1215	5.9	7.7	37.8	37.9	9.2	1.0	.3	11.7	100.0	926
1821	4.3	4.7	48.9	35.7	5.2	.7	.3	11.0	100.0	575
TOT	198	203	1229	1073	239	26	12	11.4		2944
PCT	5.4	7.0	41.7	36.5	8.1	.9	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.1	1.8	3.5	2.4		3.0
NE	6.1	.8	2.1	2.1		3.0
E	1.6	.7	.8	1.0		4.0
SE	.9	.9	1.6	2.1		5.3
S	4.4	4.2	6.6	3.8		4.5
SW	6.7	4.0	6.6	2.7		4.1
W	3.6	.6	2.4	1.4		3.6
NW	3.1	1.6	1.8	.8		2.2
VAR	.0	.0	.0	.0		.0
CALM	4.6	.5	1.9	1.0		2.6
TOT OBS	374	138	244	183	911	3.6
TOT PCT	41.1	15.1	27.2	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 399	400 999	1000 1999	2000 3499	2500 4999	3000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.6	.0	.0	.4	1.0	2.3	.4	.2	.1	.0	10.8	
NE	.7	.0	.1	.4	.4	1.5	.4	.8	.0	.1	7.3	
E	.3	.0	.1	.2	.4	.3	.1	.0	.0	.0	2.4	
SE	.1	.0	.0	.4	1.2	1.3	.4	.1	.0	.2	2.0	
S	.1	.0	.0	.4	2.2	4.5	2.3	.0	.1	.1	9.2	
SW	.3	.0	.1	.9	2.1	4.1	1.2	.0	.1	.0	11.3	
W	.2	.1	.0	.3	.3	1.7	.3	.1	.2	.0	4.8	
NW	.0	.0	.0	.2	.4	.3	.1	.1	.0	.0	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.3	1.2	.1	.0	.1	.2	3.2	
TOT OBS	27	1	3	30	73	162	48	3	7	6	380	911
TOT PCT	2.6	.1	.3	3.3	8.2	17.8	5.9	.3	.8	.7	60.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>5	>1/2	>1/4	>50YD	>0
> OR >6500	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3
> OR >5000	1.6	1.8	1.9	1.9	1.9	1.9	1.9	1.9
> OR >3500	5.5	6.7	7.3	7.3	7.3	7.3	7.3	7.3
> OR >2000	15.6	22.3	24.6	24.7	24.7	24.7	24.8	24.8
> OR >1000	20.8	29.7	32.8	33.2	33.3	33.3	33.4	33.4
> OR >500	21.8	32.2	36.0	36.5	36.7	36.7	36.8	36.8
> OR >100	22.0	32.4	36.3	36.8	37.0	37.0	37.1	37.1
> OR >50	22.0	32.5	36.4	36.9	37.1	37.1	37.3	37.3
> OR >0	22.1	32.7	36.8	37.3	37.7	38.4	39.8	40.0
TOTAL	197	291	328	334	336	342	355	359

TOTAL NUMBER OF OBS: 891

PCT FREQ NM <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	39.7	3.8	7.2	6.0	8.3	6.4	8.7	9.1	14.4	2.5
										948

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

MARCH

AREA 0613 SAMIA BLANCA
39.65 57.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.4	.3	.2	.2	.1	.2	.1	.0	.0	.3	2.1	
	TOT %	.4	.3	.2	.2	.1	.2	.1	.0	.0	.3	2.2	
1/2<1	PCP	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.9	
	NO PCP	.1	.9	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.9	.1	.1	.1	.1	.1	.0	.0	.0	.6	
1<2	PCP	.1	.2	.0	.0	.0	.2	.0	.0	.0	.0	.4	
	NO PCP	.2	.2	.0	.0	.1	.0	.1	.1	.0	.1	.7	
	TOT %	.3	.3	.0	.0	.1	.2	.1	.1	.0	.1	1.1	
2<5	PCP	.1	.2	.0	.1	.1	.3	.2	.0	.0	.0	1.0	
	NO PCP	1.3	1.4	.2	.3	2.0	1.2	.4	.7	.0	.9	8.2	
	TOT %	1.4	1.5	.2	.4	2.1	1.5	.9	.7	.0	.9	9.1	
5<10	PCP	.2	.3	.1	.0	.2	.2	.1	.0	.0	.0	1.4	
	NO PCP	4.7	3.7	1.7	2.2	3.8	3.8	1.5	2.1	.0	3.6	28.3	
	TOT %	5.2	4.0	1.8	2.3	4.0	3.9	1.7	2.2	.0	3.6	30.7	
10+	PCP	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	8.9	9.3	2.0	3.1	10.7	12.2	4.7	9.3	.0	3.2	59.7	
	TOT %	9.0	9.6	2.0	3.2	10.8	12.2	4.7	9.3	.0	3.2	60.3	
TOT OBS													1293
TOT PCT		10.7	12.1	4.4	6.1	10.1	10.2	7.2	9.3	.0	7.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPEED KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	.7	
	4-10	.4	.3	.1	.1	.0	.0	.1	.0	.0	.0	1.0	
	11-21	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.6	.3	.3	.1	.1	.2	.1	.0	.0	.3	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.4	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.2	.0	.0	.0	.1	.1	.1	.0	.0	.7	
	11-21	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.3	.3	.0	.0	.1	.2	.1	.2	.0	.1	1.6	
2<5	0-3	.1	.2	.0	.1	.0	.1	.0	.0	.0	.4	.8	
	4-10	.3	.3	.2	.0	.3	.2	.1	.3	.0	.0	2.2	
	11-21	.0	.6	.0	.2	1.1	.8	.3	.4	.0	.0	4.2	
	22+	.2	.0	.0	.0	.3	.3	.0	.1	.0	.0	.9	
	TOT %	1.4	1.4	.2	.3	1.9	1.3	.3	.8	.0	.4	8.1	
5<10	0-3	.2	.1	.1	.0	.1	.1	.0	.2	.0	3.1	3.9	
	4-10	2.3	1.9	1.1	1.3	1.3	1.2	1.0	.9	.0	.0	11.2	
	11-21	2.1	1.3	.3	.7	2.8	1.9	.4	.9	.0	.0	10.8	
	22+	.3	.1	.1	.0	1.0	.6	.2	.1	.0	.0	2.6	
	TOT %	5.1	3.6	1.8	2.0	5.3	3.8	1.6	2.1	.0	3.1	28.3	
10+	0-3	.2	.4	.2	.2	.4	.3	.1	.3	.0	3.0	3.1	
	4-10	3.9	3.0	1.7	2.4	4.3	3.3	2.4	3.1	.0	.0	24.1	
	11-21	4.9	2.7	.6	1.0	3.0	3.6	2.2	2.5	.0	.0	23.3	
	22+	.8	.2	.0	.0	1.0	2.0	.2	.3	.0	.0	4.3	
	TOT %	9.8	6.3	2.6	3.6	10.7	12.1	4.9	6.3	.0	3.0	59.3	
TOT OBS													1473
TOT PCT		17.3	12.1	5.1	6.2	10.2	17.7	7.2	9.4	.0	6.9	100.0	

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1860-1976

MARCH

AREA 0013 BAHIA BLANCA
39.63 57.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	4.5	.0	.5	3.5	8.0	14.6	6.5	.0	.0	.5	38.2	61.8	199
0600	1.6	.0	.0	1.1	5.4	11.4	1.1	.5	.5	.0	21.7	78.3	184
1200	2.6	.4	.4	4.4	9.5	21.9	4.7	.7	.4	1.5	46.4	53.6	274
1800	1.8	.0	.4	3.2	9.0	19.1	7.2	.7	1.8	.4	42.5	57.5	278
TOT	24	1	3	30	77	163	48	5	7	6	364	571	933
PCT	2.6	.1	.3	3.2	8.2	17.4	5.1	.5	.7	.6	38.9	61.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	2.3	.8	1.5	12.6	34.1	48.7	996
0600	1.8	.0	.6	12.2	35.8	49.3	327
1200	3.4	.7	2.2	4.4	22.3	66.7	408
1800	1.4	.3	1.1	3.6	23.1	70.6	360
TOT	34	7	21	121	427	881	1491
PCT	2.3	.5	1.4	8.1	28.6	59.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	4.5	6.1	24.7	23.2	52.0	199
0600	2.0	2.7	12.1	16.1	71.8	149
1200	2.6	3.4	11.6	37.1	51.3	267
1800	1.8	2.3	10.1	34.7	53.2	277
TOT	34	32	126	265	500	891
PCT	2.7	3.6	14.1	29.7	56.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.3	.0	.3	2	.6
70/74	.0	.0	.0	.3	.0	1.5	1.8	1.2	16	4.7
65/69	.0	.0	.0	.0	.9	1.8	4.1	8.3	51	15.0
60/64	.0	.0	.3	.6	2.4	4.1	13.9	16.2	134	39.5
55/59	.0	.0	.3	.9	3.8	3.9	10.6	8.3	101	29.6
50/54	.0	.0	.0	.0	2.7	2.1	2.9	2.4	34	10.0
45/49	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
TOTAL	0	0	2	6	33	33	121	124	339	100.0
PCT	.0	.0	.6	1.8	9.7	13.6	35.7	36.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0
70/74	2.3	.9	.0	.1	.4	.6	.3	.1	.0	.0
65/69	4.4	1.5	.8	1.6	1.1	2.0	1.3	2.3	.0	.0
60/64	12.7	5.2	1.5	1.1	2.7	8.3	2.4	4.6	.0	1.2
55/59	3.8	3.8	2.3	1.9	8.5	4.0	2.1	1.9	.0	1.5
50/54	.0	.0	.0	.3	3.1	2.6	.2	.6	.0	.3
45/49	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
TOTAL	23.1	11.8	4.9	6.0	17.8	17.4	6.3	9.7	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	75	73	69	61	53	50	49	61.0	822
0600	75	70	68	60	52	50	47	60.1	387
1200	80	74	71	62	54	52	49	62.0	881
1800	86	80	74	64	58	53	51	64.2	350
TOT	86	75	71	62	54	51	47	61.7	2840

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.1	8.9	10.0	32.2	47.8	86	90		
0600	.0	2.3	4.0	16.1	34.5	39.1	84	87		
1200	.0	3.1	9.2	13.3	34.7	35.7	84	98		
1800	.0	2.7	12.2	21.6	36.5	27.0	81	74		
TOT	0	8	33	54	122	132	84	349		

MARCH

PERIOD: (PRIMARY) 1910-1976
(OVER-ALL) 1960-1976

TABLE 17

AREA 0013 BAHIA BLANCA
39.63 57.4WPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.C	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	3	.0	.3
14/16	.0	.0	.0	.0	.1	.0	.2	.0	.0	.0	.	.0	.3
11/13	.0	.0	.0	.0	.0	.1	.3	.2	.1	.0	7	.0	.6
9/10	.0	.0	.1	.1	.3	.3	.2	.1	.0	.0	12	.0	1.0
7/8	.0	.0	.1	.6	.7	.4	.8	.0	.0	.0	30	.3	2.2
6	.0	.0	.1	.4	.8	.7	.4	.0	.0	.0	28	.C	2.3
5	.0	.1	.6	.9	1.0	.8	.4	.0	.0	.0	43	.0	3.6
4	.0	.0	.8	1.8	2.1	.8	.0	.0	.0	.0	64	.7	4.7
3	.0	.1	1.1	1.3	1.6	.8	.0	.0	.0	.0	61	.4	4.7
2	.1	.4	.7	4.0	3.4	.8	.0	.0	.0	.0	110	.4	8.6
1	.1	.7	1.6	2.9	1.6	.3	.1	.0	.0	.0	86	.4	6.8
0	.3	.8	1.1	5.7	3.4	.3	.0	.0	.0	.0	138	.9	10.7
-1	.1	.3	1.6	2.9	1.3	.2	.0	.0	.0	.0	81	.3	6.5
-2	.3	.6	2.8	3.1	1.8	.0	.0	.0	.0	.0	127	.7	10.0
-3	.3	.8	2.3	2.3	.3	.0	.0	.0	.0	.0	74	.1	6.1
-4	.0	1.6	3.2	3.4	.2	.0	.0	.0	.0	.0	100	.2	8.2
-5	.2	1.2	2.6	1.4	.1	.1	.0	.0	.0	.0	66	.2	5.4
-6	.1	.3	1.1	.9	.1	.0	.0	.0	.0	.0	32	.1	2.6
-7/-8	.1	2.3	2.2	1.0	.1	.0	.0	.0	.0	.0	68	.2	3.8
-9/-10	.3	1.7	1.1	.1	.0	.0	.0	.0	.0	.0	38	.1	3.1
-11/-12	.3	1.0	.0	.1	.0	.0	.0	.0	.0	.0	17	.1	1.3
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	30	147	273	419	227	61	27	3	3	2	1192	61	1131
PCT	2.9	12.3	22.9	33.2	19.0	5.1	2.3	.3	.3	.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1960-1976

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.3	.0	.0	.0	.0	1.1	.4	.8	.0	.0	.0	.0	1.2
1-2	.5	3.4	.7	.0	.0	.0	4.1	.0	3.6	1.4	.0	.0	.0	4.9
3-4	.0	1.8	2.6	.1	.0	.0	4.3	.0	.9	2.1	.0	.0	.0	3.0
5-6	.0	.3	1.8	.4	.0	.0	2.4	.0	.2	1.0	.0	.0	.0	1.2
7	.0	.0	1.6	.3	.0	.0	2.0	.0	.0	.2	.1	.0	.1	.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.0	7.1	1.1	.0	.0	14.7	.4	3.4	4.8	.1	.0	.0	10.8

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	.4	.0	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.6
1-2	.5	1.2	.7	.0	.0	.0	3.2	.0	1.1	.4	.0	.0	.0	1.6
3-4	.0	.7	.0	.0	.0	.0	1.6	.0	.3	1.1	.0	.0	.0	1.6
5-6	.0	.3	.3	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	1.1	.0	.0	.0	3.9	.1	2.1	1.9	.0	.0	.0	4.1

PERIOD: (OVER-ALL) 1963-1976

MARCH
TABLE 10 (CONT)

AREA 0013 SANTA BLANCA
29.65 27.44

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	.1	.4	.0	.0	.0	.0	.5	2.7
1-2	.1	1.9	.2	.0	.0	.0	2.6	.1	2.4	.2	.0	.0	.0	2.7	4.4
3-4	.1	1.8	2.7	.0	.0	.0	4.7	.0	.7	3.7	.3	.0	.0	4.7	3.4
5-6	.0	.1	3.3	.1	.0	.0	3.6	.0	.0	3.2	.1	.0	.0	3.4	2.6
7	.0	.2	2.0	.0	.0	.0	2.3	.0	.1	2.6	.9	.0	.0	2.9	2.2
8-9	.0	.0	2.0	.3	.0	.0	2.3	.0	.0	1.3	1.0	.1	.0	.9	2.2
10-11	.0	.0	.4	.1	.1	.0	.9	.0	.0	.4	.4	.1	.0	.9	2.2
12	.0	.0	.1	.6	.1	.0	.4	.0	.0	.1	.1	.0	.0	.2	2.2
13-16	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
TOT PCT	.4	4.5	11.2	1.8	.1	.0	18.1	.7	3.8	12.0	3.4	.3	.0	20.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.1	.3	.0	.0	.0	.0	.4	2.7
1-2	.0	2.6	.0	.0	.0	.0	2.6	.0	2.6	.1	.0	.0	.0	2.7	4.4
3-4	.0	.3	1.5	.0	.0	.0	.7	.0	.8	1.0	.0	.0	.0	1.1	3.4
5-6	.0	.1	.3	.0	.0	.0	.3	.0	.2	.8	.1	.0	.0	1.1	2.6
7	.0	.0	.5	.0	.0	.0	.5	.0	.4	.4	.1	.0	.0	.9	2.2
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	2.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
TOT PCT	.0	3.7	2.7	.1	.0	.0	6.4	.3	4.4	2.6	.3	.0	.0	7.1	55.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.5	3.9	.1	.0	.0	.0	20.6	684
1-2	.3	16.7	3.4	.0	.0	.0	22.4	
3-4	.3	7.7	15.4	.4	.0	.0	23.8	
5-6	.0	1.2	11.3	.7	.0	.0	13.2	
7	.0	.9	7.3	1.6	.0	.0	9.9	
8-9	.0	.0	4.2	1.3	.0	.0	5.7	
10-11	.0	.0	.9	.9	.1	.0	1.9	
12	.0	.0	.4	1.0	.3	.0	1.8	
13-16	.0	.0	.1	.6	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.1	32.3	43.3	6.7	.4	.0	100.0	

PERIOD: (OVER-ALL) 1960-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	6.8	13.3	5.3	2.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	272	4
6-7	.0	.8	3.1	4.3	4.8	3.4	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	149	6
8-9	.0	.0	.8	1.7	1.7	.3	.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
10-11	.0	.0	.6	1.0	1.0	.7	.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
12-13	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	12.1	10.4	9.8	8.6	3.0	1.2	.3	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	339	3
TOTAL	107	183	224	196	116	34	16	17	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	882	4
PCT	12.4	18.9	26.0	18.1	13.5	6.3	1.9	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130.0	

APRIL

PERIOD: (PRIMARY) 1011-1970
(OVER-ALL) 1000-1970AREA 0013 SANTA BLANCA
59.95 56.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RATE	RAIN MM	DRIZ	PRIG PCPN	SNOW	OTHER PCPN	MAIL	PCPN AT DB TIME	PCPN PAST MM	THOR LTNG	FG NO PCPN	FG NO PCPN PAST MM	SMOKE HAZE	SPRAY BLDG	NO SIG SEA
N	.9	1.6	.6	.0	.0	.0	.9	6.1	.0	.0	11.5	.0	1.9	.9	01.9
NE	.7	3.2	.7	.0	.6	.0	.4	5.0	1.5	.7	8.6	.9	.7	.9	02.3
E	4.7	1.2	.0	.0	.0	.5	.6	5.9	.9	.0	13.6	.0	.9	.9	00.3
SE	2.0	4.6	2.0	.0	.0	.0	.6	7.1	2.0	.0	13.1	.0	.0	.0	77.8
S	.0	2.1	6.3	.0	.0	.0	.6	6.4	.0	.0	4.3	.0	.0	.0	09.4
SW	.0	.9	.9	.0	.0	.0	.6	1.8	1.0	.0	6.7	1.0	.4	.0	07.3
W	.9	.0	.9	.0	.0	.0	.6	1.0	.0	.9	4.7	.0	2.0	.9	00.3
NW	2.6	.9	1.3	.0	.0	.0	.6	3.1	.0	.0	5.3	.0	.0	.0	06.4
VAR	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.9
CALF	.0	3.6	.0	.0	.0	.0	.6	3.0	5.7	.0	9.4	.0	.0	.9	01.1
TOT PCT TOT OBS:	1.1 809	1.7	1.2	.0	.0	.0	.2	4.3	1.3	.4	8.0	.2	.9	.1	05.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SNOW	DRIZ	PRIG PCPN	SNOW	OTHER PRIN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FG NO PCPN	FG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLDG SNOW	NO SIG SEA
0000	.0	1.3	1.3	.0	.0	.0	.0	3.5	.4	.9	7.9	.4	.9	.0	05.9
0600	2.4	1.3	2.4	.0	.0	.0	.0	6.3	2.4	1.0	3.4	.0	.0	.5	06.4
1200	1.2	1.7	.4	.0	.0	.0	.6	3.3	.4	.0	8.3	.0	1.2	.0	06.3
1800	.9	2.2	.9	.0	.0	.0	.6	3.9	1.3	.0	12.1	.4	1.7	.0	00.3
TOT PCT TOT OBS:	1.1 906	1.7	1.2	.0	.0	.0	.2	4.2	1.1	.4	8.1	.2	1.0	.1	04.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
								OBS	FREQ	SPD							
N	.4	6.9	5.7	.6	.1	.0		14.0	11.5		12.8	14.7	21.4	12.3	16.8	9.1	14.7
NE	.6	6.0	4.9	.3	.0	.0		11.8	10.7		14.2	12.8	19.3	6.7	10.7	8.3	16.8
E	.2	2.5	1.9	.3	.0	.0		4.2	10.0		3.2	5.3	3.4	3.6	2.4	4.3	6.6
SE	.5	3.3	3.0	.6	.1	.0		7.6	12.0		9.1	8.5	4.0	7.6	3.9	10.1	3.7
S	1.2	3.6	4.6	1.9	1.2	.1		12.0	15.3		10.4	10.6	11.4	12.1	14.1	13.2	9.2
SW	.9	4.4	5.3	2.4	1.4	.2		14.4	16.7		14.8	13.3	11.4	14.3	11.7	16.4	17.6
W	1.0	5.4	9.2	1.7	.2	.1		13.9	13.0		13.5	15.5	12.3	16.4	13.6	14.2	13.6
NW	.7	6.9	8.2	2.1	.3	.1		18.2	13.3		13.3	17.0	16.3	25.1	20.6	22.2	12.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.8	.0		6.7	1.4	4.4	1.9	4.2	2.1	5.0
TOT OBS	206	863	829	207	75	9		2109	12.8		405	207	204	210	407	324	219
TOT PCT	9.4	39.4	37.9	9.5	3.4	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL	PCT	MEAN	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	03	12	18
							OBS	FREQ	SPD	00	03	12	18
N	2.0	8.4	2.6	.2	.0			14.0	11.5	13.5	16.8	13.4	12.9
NE	2.4	8.1	1.3	.0	.0			11.8	10.7	13.7	10.9	9.6	13.7
E	1.0	2.6	.6	.0	.0			4.2	10.0	3.2	3.3	3.2	5.3
SE	2.0	4.0	1.3	.2	.2			7.6	12.0	8.9	3.6	7.8	7.0
S	2.0	4.9	2.3	1.3	.3			12.0	15.3	10.5	11.8	13.7	11.4
SW	2.3	6.0	3.3	2.0	.6			14.4	16.7	14.3	12.9	13.6	17.2
W	3.4	6.3	3.1	.7	.2			13.9	13.0	14.1	14.4	13.9	13.3
NW	3.0	9.2	3.1	.0	.1			18.2	13.3	14.9	20.9	21.3	13.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	3.0							3.8	.0	6.9	3.1	2.3	4.0
TOT OBS	821	1086	432	114	36		2109	12.8		612	416	733	428
TOT PCT	38.8	49.6	19.7	5.2	1.6		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1969-1976

APRIL

AREA 0013 SANJA BLANCA
39.35 56.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CPT)

HOUR	CALC	WIND SPEED (KNOTS)						PCT MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-39	40-47	48+			
0000Z	4.9	6.0	40.4	36.6	8.8	3.1	.2	12.1	100.0	612
0400Z	3.1	4.0	37.3	41.1	9.4	4.1	.3	13.3	100.0	414
1200Z	2.3	6.1	37.7	37.9	11.2	3.3	.3	13.3	100.0	733
1900Z	4.0	4.9	43.2	36.4	7.5	3.5	.3	12.3	100.0	428
TOT	94	182	863	829	267	75	9	12.8		2189
PCT	3.8	5.6	39.4	37.9	9.5	3.4	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	0.1	1.5	4.3	3.9		3.7
NE	7.4	1.8	4.4	2.7		3.6
E	2.0	.1	.4	1.1		3.4
SE	2.7	.4	1.1	1.1		3.5
S	5.1	.8	2.3	2.1		3.5
SW	0.3	2.3	1.0	1.2		2.4
W	9.6	.8	1.5	.9		1.8
NW	7.0	1.6	3.0	1.5		3.2
VAR	.0	.0	.0	.0		.0
CALC	2.8	.2	1.5	1.1		3.7
TOT OBS	358	63	140	103	664	3.2
TOT PCT	59.9	9.5	21.1	15.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <9/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <9/8 ANY HGT	TOTAL OBS
N	1.1	.0	.0	.5	1.5	1.9	.7	.2	.2	.3	11.6	
NE	.5	.0	.0	.2	1.8	2.0	1.5	.2	.0	.0	10.5	
E	.3	.0	.0	.0	.2	.3	.6	.0	.2	.2	2.8	
SE	.2	.0	.2	.2	.5	.8	.3	.0	.0	.0	3.2	
S	.9	.0	.0	.5	1.4	1.5	.5	.0	.0	.0	6.1	
SW	.5	.0	.0	.4	1.3	.3	.2	.0	.0	.2	10.7	
W	.5	.0	.0	.0	.8	.3	.2	.0	.2	.0	10.9	
NW	.3	.0	.0	.3	.8	1.0	.8	.3	.0	.2	10.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALC	.3	.0	.0	.0	.8	.8	.9	.0	.0	.0	3.2	
TOT OBS	25	0	1	14	80	58	39	4	3	5	481	664
TOT PCT	3.8	.0	.2	2.1	9.0	8.7	5.0	.6	.5	.8	69.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>OR>6500	.5	1.1	1.2	1.2	1.2	1.4	1.4	1.4
>OR>5000	.9	1.9	2.0	2.0	2.2	2.2	2.2	2.2
>OR>3500	3.4	6.2	6.6	6.6	6.6	6.8	7.0	7.1
>OR>2000	3.9	14.1	15.0	15.1	13.3	13.3	13.8	13.9
>OR>1000	9.4	21.5	23.8	24.0	24.1	24.4	24.7	24.9
>OR>600	9.7	23.2	25.8	26.0	26.1	26.6	26.9	27.0
>OR>300	9.7	23.2	26.0	26.1	26.3	26.7	27.0	27.2
>OR>150	9.7	23.2	26.0	26.1	26.3	26.7	27.0	27.2
>OR>0	9.7	23.6	26.9	27.0	27.4	28.4	30.8	31.4
TOTAL	63	153	174	175	177	184	199	203

TOTAL NUMBER OF OBS: 667

PCT FREQ NM <9/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	42.3	7.7	10.2	5.7	2.9	3.7	5.0	8.6	10.0	3.7	697

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1849-1976AREA 0013 SANIA BLANCA
39.95 96.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.3	
	NO PCP	.7	.3	.1	.1	.3	.7	.4	.1	.0	.1	2.8	
	TOT S	.7	.6	.1	.1	.3	.7	.4	.2	.0	.1	3.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	NO PCP	.2	.1	.0	.1	.0	.0	.1	.1	.0	.0	.4	
	TOT S	.2	.1	.0	.1	.0	.0	.1	.1	.0	.1	.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.0	.1	.0	.1	.1	.0	.1	.6	
	TOT S	.2	.0	.0	.0	.1	.0	.1	.1	.0	.1	.6	
2<5	PCP	.2	.3	.0	.0	.1	.0	.0	.1	.0	.0	.7	
	NO PCP	.6	.4	.3	.4	.6	.4	.9	.6	.0	.7	4.4	
	TOT S	.8	.7	.3	.4	.7	.4	.9	.7	.0	.7	5.5	
5<10	PCP	.4	.3	.3	.4	.4	.0	.4	.4	.0	.1	2.4	
	NO PCP	6.7	6.7	1.9	2.1	4.6	4.4	3.7	6.2	.0	2.9	41.4	
	TOT S	7.1	7.0	2.2	2.5	5.1	4.4	3.7	6.6	.0	3.0	43.8	
10+	PCP	.1	.0	.0	.0	.1	.2	.2	.1	.0	.0	.8	
	NO PCP	7.0	6.8	2.1	2.4	4.3	6.9	7.1	7.1	.0	1.9	43.7	
	TOT S	7.1	6.8	2.1	2.4	4.4	7.1	7.3	7.3	.0	1.9	44.5	
TOT OBS													
TOT PCT		18.0	13.1	4.8	5.6	10.6	12.6	12.5	14.9	.0	6.0	100.0	889

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.3	.2	.0	.1	.2	.5	.2	.2	.0		1.8	
	11-21	.2	.3	.1	.0	.0	.1	.1	.0	.0		.8	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT S	.6	.5	.1	.2	.3	.6	.3	.2	.0	.1	2.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0		.2	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT S	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0		.4	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT S	.1	.0	.0	.0	.2	.0	.2	.1	.0	.1	.9	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.6	.8	
	4-10	.3	.3	.1	.1	.4	.1	.2	.1	.0		1.7	
	11-21	.3	.3	.2	.2	.2	.1	.4	.6	.0		2.5	
	22+	.0	.0	.1	.0	.1	.1	.2	.0	.0		.3	
	TOT S	.7	.6	.4	.3	.8	.3	.8	.7	.0	.6	5.4	
5<10	0-3	.4	.1	.0	.2	.1	.0	.1	.0	.0	2.8	3.7	
	4-10	4.3	3.6	1.2	1.1	1.3	1.3	2.1	2.8	.0		18.2	
	11-21	3.4	2.6	.8	1.7	2.7	2.3	1.3	3.3	.0		18.7	
	22+	.3	.0	.1	.0	.3	.2	.2	.4	.0		2.0	
	TOT S	8.7	6.4	2.2	3.0	4.5	4.2	3.9	6.7	.0	2.8	42.4	
10+	0-3	.1	.2	.0	.0	.3	.3	.0	.1	.0	1.8	3.0	
	4-10	3.6	3.3	1.9	1.4	1.3	2.3	3.2	3.2	.0		20.3	
	11-21	2.7	2.9	.4	1.1	2.9	3.2	3.6	3.4	.0		20.3	
	22+	.3	.1	.0	.2	.4	1.2	.9	.8	.0		4.0	
	TOT S	6.7	6.7	2.4	2.7	5.0	7.4	7.6	7.6	.0	1.8	47.9	
TOT OBS													
TOT PCT		17.0	14.3	5.1	6.4	10.7	12.7	12.9	13.4	.0	9.4	100.0	1013

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1869-1976AREA 0013 BAHIA BLANCA
39.35 56.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	180 209	300 309	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	5.7	.0	.0	.7	8.6	6.4	5.7	.0	.7	1.4	29.3	70.7	140
06009	3.6	.0	.7	2.9	3.6	2.2	2.9	.7	.0	.7	17.3	82.7	139
12015	2.0	.0	.0	2.3	12.4	9.4	5.4	1.0	1.0	1.0	34.7	65.3	202
18021	4.8	.0	.0	1.9	8.7	13.5	4.8	1.0	.0	.5	33.5	64.7	207
TOT	27	0	1	14	60	59	33	5	3	6	208	480	688
PCT	3.9	.0	.1	2.0	8.7	8.6	4.8	.7	.4	.9	30.2	69.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	2.3	.4	1.1	6.8	47.9	41.3	205
06009	1.3	.4	.9	7.1	48.7	41.3	224
12015	2.8	.4	1.1	3.9	38.7	55.2	284
18021	3.1	.8	.4	4.3	35.0	54.3	237
TOT	30	3	9	36	436	494	1030
PCT	2.9	.7	.9	3.4	42.3	48.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	7.1	15.0	18.9	66.1	127
06009	4.3	6.9	12.9	10.3	76.7	116
12015	2.3	4.0	9.3	23.3	65.0	200
18021	4.9	9.4	10.8	23.3	63.7	204
TOT	28	36	73	139	433	647
PCT	4.3	9.6	11.6	21.3	66.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.2	.5	.0	.0	4	.9
65/69	.0	.0	.0	.2	1.6	.9	3.6	1.6	35	7.9
60/64	.0	.0	.0	.0	2.9	6.1	10.9	11.3	139	31.4
55/59	.0	.0	.0	1.4	4.5	5.7	14.3	12.2	168	38.0
50/54	.0	.0	.0	1.1	1.6	2.7	7.0	6.2	83	18.8
45/49	.0	.0	.0	.0	.8	1.1	.7	.7	13	2.9
TOTAL	0	0	0	13	30	75	161	143	442	100.0
PCT	.0	.0	.0	2.9	11.2	17.0	36.4	32.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.2	.1	.0	.0	.0	.2	.1	.3	.0	.0
65/69	2.7	1.8	.2	.0	.2	.3	1.1	1.6	.0	.0
60/64	6.2	4.3	.3	1.5	.9	2.3	4.0	10.4	.0	1.1
55/59	6.1	2.8	1.4	2.7	6.4	6.2	6.1	8.3	.0	.2
50/54	2.4	1.1	1.0	3.1	4.0	2.8	1.9	2.0	.0	.3
45/49	.8	.0	.1	.1	1.0	.8	.5	.0	.0	.2
TOTAL	17.8	10.1	3.2	7.4	12.6	12.4	13.6	20.7	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	71	68	69	38	50	47	46	57.9	615
06009	70	66	64	38	50	47	46	57.7	419
12015	75	71	66	39	50	48	44	58.8	716
18021	75	72	69	61	51	48	47	60.7	414
TOT	75	71	66	39	50	47	44	58.7	2164

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	10.0	20.0	30.9	27.3	84	110		
06009	.0	2.7	7.3	19.2	41.8	30.0	84	110		
12015	.0	1.7	16.3	16.3	33.9	31.4	93	121		
18021	.0	5.4	11.6	14.3	38.4	30.4	93	112		
TOT	0	13	32	78	164	146	93	433		

APRIL

PERIOD: (PRIMARY) 1911-1976
(OVER-ALL) 1969-1976

TABLE 17

AREA 0013 BAHIA BLANCA
39.35 96.9W

PCT PROB OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DJF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT FOG	M FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.6	7	.1	.7
9/10	.0	.0	.0	.1	.2	1.6	.2	18	.2	2.0
7/8	.0	.0	.0	.3	2.7	1.7	.1	41	.9	4.2
6	.0	.0	.0	.3	1.3	.9	.1	21	.1	2.3
5	.0	.0	.2	1.6	3.1	1.0	.1	65	.9	7.2
4	.0	.4	.9	2.0	3.2	1.3	.0	80	.6	9.3
3	.0	.4	1.1	4.1	3.8	1.1	.0	85	.7	9.8
2	.0	.4	1.1	4.8	3.3	.7	.0	84	1.1	9.3
1	.0	1.0	1.7	4.1	2.8	.9	.0	82	.3	9.6
0	.5	.7	1.9	2.7	3.6	1.7	.1	91	1.1	10.1
-1	.1	.9	1.2	2.3	2.2	.0	.0	35	.7	6.1
-2	.1	.9	1.4	2.3	3.1	.0	.0	43	.9	6.9
-3	.0	.4	2.0	.6	.4	.1	.0	28	.1	3.3
-4	.1	.7	.9	.7	1.4	.0	.0	31	.2	3.6
-5	.1	.5	.2	.5	.4	.0	.0	14	.0	1.7
-6	.0	.1	.5	.2	.9	.0	.0	14	.0	1.7
-7/-8	.0	.2	1.2	.9	.0	.0	.0	18	.0	2.0
-9/-10	.1	.1	.4	.6	.0	.0	.0	10	.1	1.1
-11/-13	.1	.1	.1	.0	.0	.0	.0	3	.1	.2
-14/-16	.0	.0	.1	.0	.0	.0	.0	1	.1	.0
TOTAL	10	55	121	229	298	87	11	809	70	739
PCT	1.2	6.8	13.0	28.3	36.6	10.8	1.4	100.0	8.7	91.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT PROB OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.8	.0	.0	.0	.0	.9	41	.2	.7	.0	.0	.0	.0	.9
1-2	.0	3.7	.9	.0	.0	.0	4.3	1-2	.0	4.2	.9	.0	.0	.0	5.1
3-4	.0	3.1	2.9	.0	.0	.0	8.0	3-4	.0	4.2	6.2	.0	.0	.0	10.6
5-6	.0	.0	2.0	.0	.0	.0	2.0	5-6	.0	.2	1.4	.0	.0	.0	1.6
7	.0	.2	.4	.2	.0	.0	.7	7	.0	.1	.1	.0	.0	.0	.1
8-9	.0	.2	.3	.0	.0	.0	.3	8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	9.8	6.4	.4	.0	.0	16.8	TOT PCT	.4	9.3	8.7	.0	.0	.0	18.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.6	.0	.0	.0	.0	.6	41	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.6	.4	.0	.0	.0	2.0	1-2	.0	1.4	.0	.0	.0	.0	1.3
3-4	.0	.6	.2	.2	.0	.0	.9	3-4	.0	.1	.7	.1	.0	.0	.8
5-6	.0	.0	.4	.0	.0	.0	.4	5-6	.0	.2	.3	.1	.0	.0	.9
7	.0	.0	.2	.0	.0	.0	.2	7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.3	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	1.2	.2	.0	.0	4.1	TOT PCT	.1	2.3	1.8	.3	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1976

APRIL
TABLE 18 (CONT)AREA 0013 BAHIA BLANCA
39.55 56.9W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.5	.4	.0	.0	.0	.0	.9
1-2	.2	2.4	.2	.0	.0	.0	2.8	.0	1.4	.1	.0	.0	.0	1.5
3-4	.0	1.0	2.0	.4	.0	.0	3.4	.0	.9	.6	.5	.0	.0	1.9
5-6	.0	.0	1.7	.2	.0	.0	1.9	.0	.0	2.4	.1	.2	.0	2.7
7	.0	.4	.7	.0	.0	.0	1.1	.0	.1	1.4	.4	.0	.0	1.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.2	.4	.0	.0	.5	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	5.1	.9	.2	.0	10.2	.3	2.7	5.2	1.9	.4	.0	10.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.5	
1-2	.0	.9	.3	.0	.0	.0	1.4	.0	2.4	.7	.0	.0	.0	3.1	
3-4	.0	1.4	.9	.0	.0	.0	2.9	.0	2.1	2.1	.2	.0	.0	4.4	
5-6	.0	.6	2.1	.0	.0	.0	2.7	.0	.4	1.0	.4	.0	.0	1.8	
7	.0	.4	.9	.2	.0	.0	1.4	.0	.0	.7	.3	.0	.0	1.2	
8-9	.0	.0	1.1	.4	.0	.0	1.5	.0	.2	.3	.0	.0	.0	.5	
10-11	.0	.0	.4	.4	.0	.0	.8	.0	.0	.4	.2	.0	.0	.6	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.6	.2	.2	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.2	6.7	1.8	.2	.0	12.9	.1	3.6	5.2	1.3	.0	.0	12.0	89.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.4	4.3	.0	.0	.0	.0	15.7	
1-2	.2	18.0	3.7	.0	.0	.0	21.8	
3-4	.2	15.3	15.3	1.8	.0	.0	32.9	
5-6	.0	1.4	11.4	.8	.2	.0	13.9	
7	.0	1.0	4.3	1.2	.0	.0	6.7	
8-9	.0	.4	2.7	.4	.0	.0	3.5	
10-11	.0	.0	1.2	1.2	.2	.0	2.7	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.8	1.0	.2	.0	2.0	
17-19	.0	.0	.0	.2	.2	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.8	40.4	40.2	6.7	.8	.0	100.0	490

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.7	17.1	4.9	1.8	.8	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	201	4
6-7	.0	1.6	9.3	3.8	1.9	2.2	1.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
8-9	.0	.2	1.6	2.9	1.4	.8	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	7
10-11	.0	.3	.3	1.0	1.3	.2	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	.0	.2	.6	.3	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	9
>13	.0	.0	.0	.0	.2	1.0	1.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	10
INDFT	7.2	7.8	10.2	3.2	2.9	1.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOTAL	32	98	218	100	63	43	26	8	13	3	1	0	0	0	0	0	0	0	0	627	4
PCT	8.3	19.6	34.8	15.9	10.0	7.2	4.1	1.3	2.1	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

MAY

AREA 0013 SANJA BLANCA
39.4S 96.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCP	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	1.4	2.9	3.2	.0	.0	.0	.0	7.3	1.4	3.6	21.1	.0	3.0	.0 62.9
NE	.0	2.7	4.1	.0	.0	.0	.0	6.8	.0	1.4	40.4	.0	.0	.0 31.4
E	3.3	6.3	.0	.0	.0	.0	.0	12.7	.0	.0	3.2	.0	.0	.0 84.1
SE	.0	5.6	1.4	.0	.0	.0	.0	6.9	.0	5.6	5.6	.0	.0	.0 81.9
S	3.4	3.4	2.3	.0	.0	.0	.0	9.2	.0	6.4	6.7	.0	.0	.0 79.0
SW	2.4	1.2	.0	.0	.0	.0	.0	3.3	4.7	1.2	4.1	.0	.0	.0 86.3
W	.0	4.5	.0	.0	.0	.0	.0	4.3	.0	2.7	4.9	.0	.0	.0 87.9
NW	1.8	3.3	2.2	.0	.0	.0	.0	7.3	.0	.9	8.0	1.8	.9	.0 81.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
TOT PCT	1.5	3.3	1.8	.0	.0	.0	.0	6.6	.9	2.7	12.7	.3	1.2	.0 76.2
TOT OBS:	332													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000Z	.9	3.8	.9	.0	.0	.0	.0	3.7	.9	3.7	11.3	.0	1.9	.0 73.3
0600Z	4.3	2.9	2.9	.0	.0	.0	.0	10.1	.0	2.9	10.1	.0	1.4	.0 76.8
1201Z	1.1	2.3	2.3	.0	.0	.0	.0	3.7	.0	1.1	13.8	.0	1.1	.0 78.2
1802Z	1.2	3.6	1.2	.0	.0	.0	.0	6.0	2.4	.0	14.3	1.2	.0	.0 76.2
TOT PCT	1.7	3.2	1.7	.0	.0	.0	.0	6.6	.9	2.6	12.4	.3	1.2	.0 76.6
TOT OBS:	346													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	1.3	3.6	3.3	1.3	.2	.0		14.2	12.2	16.2	14.6	16.3	13.6	12.1	13.0	13.7	13.2
NE	.6	4.6	3.3	.4	.0	.0		8.8	10.4	9.4	10.0	4.0	7.0	6.9	9.4	4.0	11.6
E	.6	2.1	1.6	.6	.1	.0		4.9	11.9	3.2	3.1	1.8	3.4	3.3	6.4	3.2	3.9
SE	1.3	3.0	2.4	.3	.1	.1		7.3	11.0	8.3	7.3	1.8	7.0	6.2	8.3	7.3	6.9
S	.7	3.8	4.0	1.2	.4	.1		10.2	13.8	11.3	9.1	9.8	10.0	10.1	10.6	11.3	9.2
SW	1.3	4.2	3.9	2.6	1.1	.2		13.4	13.3	13.4	16.4	18.8	16.2	17.4	13.9	18.1	14.4
W	1.0	3.1	7.2	2.8	.3	.1		16.6	14.8	13.3	16.6	16.3	16.4	17.4	17.0	20.6	16.1
NW	1.0	7.1	8.9	3.4	.3	.0		20.7	14.0	21.2	18.8	23.4	20.2	21.8	20.1	18.1	21.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	1.3	1.8	3.4	2.1	2.6	1.0	1.6	2.6
TOT OBS	197	707	772	236	33	8	1993		13.2	328	274	36	283	311	410	62	267
TOT PCT	9.9	33.3	38.7	12.8	2.7	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.6	6.8	3.0	.8	.0			14.2	12.2	13.3	13.8	12.6	13.7		
NE	2.2	3.2	1.4	.0	.0			8.8	10.4	9.7	6.3	8.4	10.3		
E	1.3	2.1	1.0	.3	.0			4.9	11.9	4.1	4.8	6.1	3.8		
SE	2.7	2.8	1.3	.3	.1			7.3	11.0	8.0	6.2	7.4	7.0		
S	2.3	4.4	2.6	.3	.3			10.2	13.8	10.3	17.0	10.4	9.6		
SW	3.6	3.3	4.3	1.3	.3			13.4	13.3	14.8	16.6	13.4	13.1		
W	2.9	7.0	3.3	1.2	.2			16.6	14.8	13.9	16.4	17.2	16.9		
NW	3.7	9.3	6.3	1.4	.1			20.7	14.0	20.1	21.0	20.8	21.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	2.0							2.0	.0	1.7	2.6	1.7	2.4		
TOT OBS	486	837	309	117	24	1993			13.2	602	341	721	329		
TOT PCT	24.4	43.0	23.3	5.9	1.2			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1967-1976
(DEP-ALL) 1971-1976

NAV

AREA 0013 SANJA BLANCA
39.45 56.00

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (CPT)

WIND	CAL	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000	1.7	9.1	30.2	30.5	11.3	2.3	.8	13.0	100.0	002
0009	2.0	5.9	27.0	40.5	11.7	1.5	.9	13.0	100.0	341
12015	1.7	7.9	34.5	30.4	14.3	3.2	.0	13.4	100.0	721
10021	2.4	7.9	34.7	30.0	13.7	3.3	.0	13.3	100.0	329
TOT	30	130	707	772	236	53	8	13.2		1993
PCT	2.0	7.9	35.5	30.7	12.8	2.7	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	C-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	4.7	2.0	7.7	6.5		5.2
NE	.5	.5	1.2	4.2		6.0
E	.0	.0	.0	.5		7.0
SE	.4	1.9	1.7	1.1		5.2
S	3.1	2.0	5.9	1.7		4.4
SW	0.7	3.6	3.2	1.5		3.0
W	0.3	2.6	4.0	1.5		3.1
NW	0.6	.0	5.0	4.0		4.2
VAR	.0	.0	.0	.0		.0
CAL	1.0	.0	.5	.5		3.4
TOT OBS	67	25	34	40	166	4.3
TOT PCT	30.0	13.4	29.0	21.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	3.0	.0	.0	.0	2.0	2.2	1.5	1.1	.0	.5	9.0	
NE	2.0	.0	.0	.0	.5	1.1	.5	.5	.0	.0	1.7	
E	.0	.0	.0	.0	.0	.5	.4	.0	.0	.0	.5	
SE	.5	.0	.0	.0	.7	.5	.0	.0	.0	.0	2.4	
S	.0	.0	.0	.0	.0	.9	1.6	.4	.0	.0	7.0	
SW	.0	.0	.0	.0	.0	1.7	.8	.4	.0	.0	13.9	
W	.0	.0	.0	.0	1.9	.0	.4	.5	1.1	.0	13.6	
NW	.1	.0	.0	.0	.8	2.7	1.0	.0	.5	.0	12.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CAL	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	1.6	
TOT OBS	12	0	0	0	13	19	15	5	3	1	116	186
TOT PCT	6.5	.0	.0	.0	8.1	10.2	8.1	2.7	1.6	.5	62.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >5000	OR >0
OR >5000	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >5000	3.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >5000	8.9	12.5	12.5	12.5	12.5	12.5	12.5	12.5
OR >2000	12.3	22.4	23.4	23.4	23.4	23.4	23.4	23.4
OR >1000	15.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3
OR >500	15.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3
OR >500	15.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3
OR >150	15.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3
OR >0	15.6	30.2	32.3	32.3	32.3	32.3	32.3	32.3
TOTAL	30	30	62	63	64	64	75	75

TOTAL NUMBER OF OBS: 102

PCT FREQ NM <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	21.9	13.4	11.5	5.7	0.0	3.0	5.7	9.0	13.9	6.2	209

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

MAY

AREA 0013 SANIA BLANCA
39.43 36.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	2.3	1.9	.0	.0	.6	.2	.2	.6	.0	.0	.0	5.7
	TOT S	2.3	1.9	.0	.0	.6	.2	.2	.6	.0	.0	.0	5.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.9
	TOT S	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.9
1<2	PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.6
	TOT S	.7	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.9
2<5	PCP	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.0	.3	.0	.3	.0	.0	.3	1.9	
	TOT S	.0	.0	.0	.0	.6	.0	.3	.3	.0	.3	2.1	
5<10	PCP	1.4	.8	.6	.0	.0	.5	.8	.6	.0	.0	4.9	
	NO PCP	6.8	4.8	3.3	2.7	2.8	3.4	7.6	11.7	.0	1.2	48.6	
	TOT S	10.2	5.6	4.2	2.7	2.8	5.8	8.4	12.3	.0	1.2	53.2	
10+	PCP	.0	.0	.0	.4	.5	.0	.0	.3	.0	.0	1.2	
	NO PCP	7.8	2.3	.6	2.0	4.3	6.9	7.8	3.3	.0	.6	36.0	
	TOT S	7.8	2.3	.6	2.4	5.0	6.9	7.8	3.6	.0	.6	37.2	
TOT OBS													391
TOT PCT													
21.1 11.0 4.8 3.4 9.0 12.8 16.6 17.1 .0 2.1 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	
	4-10	1.3	1.2	.0	.0	.4	.3	.1	.5	.0	.0	2.9	
	11-21	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	1.8	1.4	.0	.0	.6	.3	.1	.7	.0	.0	4.9	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT S	.1	.3	.0	.2	.0	.2	.0	.0	.0	.0	.6	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.4	.0	.0	.0	.0	.0	.2	.5	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.4	
	TOT S	.6	.0	.0	.0	.7	.2	.2	.5	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.3	.0	.0	.4	.0	.0	.0	.0	.0	1.0	
	11-21	.2	.0	.0	.0	.2	.0	.3	.3	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.6	
	TOT S	.3	.3	.0	.0	.6	.2	.7	.3	.0	.2	2.9	
5<10	0-3	.6	.4	.0	.4	.0	.1	.3	.2	.0	.0	2.9	
	4-10	3.3	2.4	1.9	.7	1.1	1.3	1.3	3.2	.0	.0	15.4	
	11-21	4.1	.8	1.3	.7	.9	2.6	3.6	4.6	.0	.0	16.0	
	22+	.3	.4	.0	.0	.0	1.3	2.0	1.0	.0	.0	5.1	
	TOT S	8.4	4.0	3.2	1.8	2.0	3.3	7.3	9.0	.0	.0	42.0	
10+	0-3	.7	.0	1.1	.8	.8	.4	.1	.0	.4	.4	3.1	
	4-10	3.4	2.2	.8	1.4	2.3	2.3	2.8	2.7	.0	.0	17.8	
	11-21	2.9	.7	.2	.3	1.9	3.6	3.1	4.0	.0	.0	19.1	
	22+	.3	.0	.2	.0	.2	2.0	2.2	.8	.0	.0	5.7	
	TOT S	7.3	2.8	2.4	2.7	3.2	6.8	10.3	7.7	.0	.4	47.7	
TOT OBS													466
TOT PCT													
18.4 9.0 3.6 4.7 8.7 19.0 19.1 18.1 .0 1.4 100.0													

MAY

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976AREA 0013 BAHIA BLANCA
39.45 56.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	8.6	.0	.0	.0	12.1	3.4	3.4	3.4	.0	.0	31.0	69.0	58
06009	7.3	.0	.0	.0	2.5	5.0	15.0	.0	.0	.0	30.0	70.0	40
12015	4.0	.0	.0	.0	6.0	14.0	12.0	4.0	4.0	2.0	46.0	54.0	50
18021	5.6	.0	.0	.0	11.1	14.8	3.7	3.7	1.9	.0	40.7	59.3	54
TOT	13	0	0	0	17	19	16	6	3	1	75	127	202
PCT	6.4	.0	.0	.0	8.4	9.4	7.9	3.0	1.5	.5	37.1	62.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	5.1	.0	2.6	1.9	44.2	46.2	156
06009	5.0	1.0	1.0	4.0	49.0	46.0	100
12015	5.7	.0	1.5	3.0	49.0	48.9	135
18021	6.3	2.7	.9	2.7	38.7	48.6	111
TOT	25	4	8	14	213	238	502
PCT	5.0	.8	1.6	2.8	42.4	47.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<180 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	9.1	9.1	10.9	21.8	67.3	55
06009	7.9	7.9	13.8	21.1	69.2	38
12015	4.3	4.3	8.5	40.4	51.1	47
18021	5.8	9.6	9.6	36.5	59.8	52
TOT	13	15	21	58	113	192
PCT	6.8	7.8	10.9	30.2	56.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.0	.0	.0	.0	.3	1	.3
60/66	.0	.0	.3	.3	.3	1.0	1.9	1.9	18	5.7
59/59	.0	.0	.0	.3	.6	3.8	12.1	15.9	103	32.7
50/56	.0	.0	.0	1.6	2.9	3.8	19.9	14.6	122	38.7
49/49	.0	.0	.0	.6	1.0	2.5	7.0	9.5	65	20.6
40/44	.0	.0	.0	.0	.3	.3	.3	1.0	6	1.9
TOTAL	0	0	1	9	16	36	117	136	315	100.0
PCT	.0	.0	.3	2.9	5.1	11.4	37.1	43.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
69/69	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
60/66	1.6	.0	.6	.7	.3	.0	.8	1.4	.0	.3
59/59	9.2	2.3	2.9	7.7	1.9	2.9	6.3	6.0	.0	.3
50/56	7.8	4.6	.5	1.1	2.8	7.4	7.8	6.4	.0	.6
49/49	2.6	2.0	.6	2.4	3.4	3.9	3.3	2.1	.0	.3
40/44	.3	.0	.0	.0	.6	.3	.0	.0	.0	.6
TOTAL	21.3	9.1	4.5	9.0	9.3	14.4	18.2	16.0	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	63	60	52	46	43	41	52.4	591
06009	65	61	59	51	45	43	41	51.8	399
12015	69	64	60	53	46	44	42	53.0	703
18021	70	65	61	54	46	45	42	53.8	317
TOT	70	64	60	52	46	44	41	52.7	1950

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	6.1	8.2	39.8	42.9	86	98		98
06009	.0	4.3	2.9	5.8	34.8	52.2	88	69		69
12015	.0	1.2	5.9	12.9	38.8	41.2	86	89		89
18021	.0	4.0	4.0	20.0	38.7	33.3	84	75		75
TOT	0	10	16	38	125	158	86	327		327

MAY

PERIOD: (PRIMARY) 1907-1976
(OVER-ALL) 1871-1976

TABLE 17

AREA 0013 SAMIA BLANCA
39.45 56.8WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
11/13	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
8/10	.0	.0	.3	.3	.3	.0	.0	3	.3	.6
7/8	.0	.0	.3	.6	.3	.3	.0	5	.0	1.5
6	.0	.0	.3	.3	1.2	.0	.0	6	.6	1.2
5	.0	.0	2.2	2.8	2.2	.6	.3	26	1.9	6.2
4	.0	.6	3.7	4.3	3.4	.9	.0	42	2.3	10.3
3	.0	.0	4.6	2.3	1.9	.0	.0	29	.9	8.0
2	.0	.9	4.6	3.1	3.1	.9	.0	41	1.3	11.1
1	.0	1.2	3.7	2.8	2.3	.3	.0	34	1.9	8.6
0	.0	.3	2.8	4.0	1.2	.6	.0	29	.6	8.3
-1	.0	2.2	1.3	1.2	.3	.3	.0	18	1.2	4.3
-2	.9	.9	1.9	2.2	.3	.0	.0	20	.6	3.6
-3	.6	.6	1.5	1.5	.3	.0	.0	15	.3	4.3
-4	.0	1.5	1.2	1.5	.0	.0	.0	14	.0	4.3
-5	.0	1.5	.9	1.3	.9	.0	.0	16	.0	4.9
-6	.3	1.2	1.3	.6	.3	.0	.0	13	.0	4.0
-7/-8	.0	1.9	.6	.0	.3	.0	.0	9	.3	2.3
-9/-10	.0	.0	.3	.0	.0	.0	.0	1	.0	.3
-11/-12	.0	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	6	43	96	14	324	41	283			
PCT	1.9	13.3	32.1	29.6	18.5	4.3	.3	100.0	12.7	87.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	1.0	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.7	4.7	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	6.3	3.9	.0	.0	.0	12.3	.0	3.4	.7	.0	.0	.0	6.1
5-6	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	9.1	13.2	.0	.0	.0	23.3	.0	6.4	.7	.0	.0	.0	7.1

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7	.2	2.2	.0	.0	.0	.0	2.5
3-4	.0	1.0	2.0	.0	.0	.0	2.9	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	2.0	.0	.0	.0	3.7	1.2	2.7	.0	.0	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0013 BAHIA BLANCA
39.45 39.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.0	.0	.0	1.2
1-2	.7	1.0	.0	.0	.0	.0	1.7	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	3.4	2.9	.0	.0	.0	6.4	.0	2.2	2.2	.0	.0	.0	4.4
5-6	.0	1.3	1.0	.0	.0	.0	2.3	.0	.2	.0	.0	.0	.0	.2
7	.0	.7	.0	.0	.0	.0	.7	.0	.3	2.9	.0	.0	.0	3.4
8-9	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.6	6.4	.0	.0	.0	13.7	.0	4.2	8.6	.0	.0	.0	12.7

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	1.7	.0	.0	.0	2.7	.0	4.2	.5	.0	.0	.0	4.7	.0
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	3.2	1.0	.0	.0	4.2	.0
5-6	.0	2.0	2.9	.0	.0	.0	4.9	.0	2.0	2.0	.0	.0	.0	3.9	.0
7	.0	.7	.0	.0	1.0	.0	2.3	.0	.0	2.3	.0	.0	.0	2.3	.0
8-9	.0	.0	1.0	1.0	.0	.0	2.0	.0	.0	1.0	.0	.0	.0	1.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.4	9.1	1.0	1.0	.0	15.4	.0	6.1	10.0	1.0	.0	.0	17.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	2.0	1.0	.0	.0	.0	7.8	
1-2	1.0	10.8	8.9	.0	.0	.0	19.6	
3-4	.0	20.6	17.6	1.0	.0	.0	39.2	
5-6	.0	3.9	9.8	.0	.0	.0	13.7	
7	.0	2.0	8.9	.0	1.0	.0	9.8	
8-9	.0	.0	8.9	1.0	.0	.0	7.8	
10-11	.0	.0	1.0	.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	41.2	50.0	2.0	1.0	.0	100.0	102

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	2.7	11.4	16.1	6.0	2.7	4.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	4
1-2	.0	6.7	8.7	3.4	2.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
3-4	.0	.0	.7	1.3	2.0	.0	1.3	1.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	11	9
5-6	.0	.7	1.3	1.3	1.3	.7	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
7-9	.0	.0	2.0	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	.0	.0	.7	.7	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
12-13	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
TOTAL	2.7	17.7	28.0	12.7	15	12	5	8	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	149	5
PCT	5.4	19.5	28.9	18.8	10.1	8.1	3.4	3.4	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PEP(): (PRIMARY) 1908-1975
(OVP-ALL) 1954-1975AREA 0013 BAHIA BLANCA
39.45 56.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.0	1.0	3.0	.0	.0	.0	.0	5.9	.0	.0	13.9	.0	.0	.0	80.2
NE	7.7	1.9	1.9	.0	.0	.0	.0	11.3	.0	.0	24.0	.0	.0	.0	84.4
E	24.4	.0	.0	.0	.0	.0	.0	24.4	.0	.0	14.8	.0	.0	.0	61.0
SE	3.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	8.0	.0	6.0	.0	85.1
S	1.6	.0	.0	.0	.0	.0	.0	1.6	9.8	.0	16.4	.0	.0	.0	72.1
SW	7.8	.0	3.1	.0	.0	.0	3.1	10.9	6.2	.0	.0	.0	.0	.0	82.9
W	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	8.6	1.8	2.5	.0	84.7
NW	1.3	.0	.0	.0	.0	.0	.0	1.3	.0	.0	11.2	.3	.0	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.5	.3	1.0	.0	.0	.0	.3	4.8	2.1	.0	11.4	.3	.7	.0	80.6
TOT OBS:	289														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.7	1.2	.0	.0	.0	.0	.0	4.9	2.5	.0	12.3	.0	.0	.0	80.2
0600	1.7	.0	1.7	.0	.0	.0	.0	3.4	3.4	.0	6.9	.0	.0	.0	86.2
1200	4.8	.0	2.4	.0	.0	.0	1.2	7.1	.0	.0	14.3	.0	1.2	.0	77.4
1800	4.1	.0	1.4	.0	.0	.0	.0	5.4	2.7	.0	10.8	1.4	1.4	.0	78.4
TOT PCT TOT OBS	3.7 297	.3	1.3	.0	.0	.0	.3	5.4	2.0	.0	11.4	.3	.7	.0	80.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.2	5.5	1.4	.1	.0		11.9	12.9	15.6	12.8	21.1	10.3	11.9	9.8	10.9	10.0	
NE	.8	2.8	1.7	.3	.0	.0		5.0	10.0	4.2	4.4	4.4	3.7	5.2	3.8	8.3	6.1	
E	.4	1.8	1.0	.3	.1	.0		3.7	11.6	4.0	3.2	4.4	2.1	3.1	4.6	2.8	4.8	
SE	.3	3.2	2.4	.6	.1	.1		6.9	11.6	6.0	7.2	9.4	8.6	6.8	7.2	2.8	6.5	
S	1.0	4.3	4.3	1.8	.3	.2		12.3	14.6	12.3	11.5	11.1	11.2	12.4	14.4	10.1	11.3	
SW	1.0	4.9	6.2	3.0	1.5	.8		17.4	18.1	18.5	17.3	11.7	18.1	18.6	15.4	14.9	18.6	
W	1.3	6.6	6.3	1.3	1.0	.3		18.2	14.9	16.7	18.7	22.2	17.0	18.0	18.1	17.7	20.8	
NW	.9	6.8	9.8	3.8	.7	.2		22.2	15.3	20.3	22.0	13.3	27.1	21.6	22.4	29.0	20.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.3							2.3	.0	2.3	2.9	2.2	2.1	2.4	2.3	3.2	1.7	
TOT OBS	192	721	783	282	87	36	2103		14.3	348	310	45	292	330	426	62	290	
TOT PCT	9.1	34.3	37.3	13.4	4.1	1.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12
N	2.3	5.6	3.4	.4	.0		11.9	12.9	14.3	11.7	10.7	10.2	
NE	1.9	2.0	1.1	.0	.0		5.0	10.0	4.3	3.8	3.6	6.3	
E	1.4	1.6	.4	.1	.1		3.7	11.6	3.6	2.4	3.9	4.3	
SE	2.3	2.8	1.3	.2	.1		6.9	11.6	6.6	8.7	7.0	3.8	
S	3.1	4.9	2.9	1.0	.4		12.3	14.6	12.0	11.2	13.6	11.1	
SW	3.2	5.9	4.7	2.5	1.1		17.4	18.1	17.9	17.2	16.8	18.0	
W	4.2	7.5	4.0	1.8	.7		18.2	14.9	17.6	17.7	18.1	20.2	
NW	3.4	9.7	6.8	1.9	.4		22.2	15.3	21.1	23.3	22.0	21.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3						2.3	.0	2.6	2.1	2.4	2.0	
TOT OBS	516	842	319	166	80	2103		14.3	458	337	756	352	
TOT PCT	24.3	40.0	24.7	7.9	2.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1968-1975
(OVER-ALL) 1954-1975

JUNE

AREA 0013 SANTA BLANCA
39.4S 56.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	2.6	7.6	39.4	37.1	12.8	4.7	1.8	14.4	100.0	658
0600	2.1	8.8	37.9	35.9	14.8	3.6	2.1	14.4	100.0	337
1200	2.4	5.3	39.1	38.2	13.4	4.2	1.5	14.4	100.0	756
1800	2.0	6.8	35.5	37.2	13.4	3.4	1.7	14.0	100.0	352
TOT	49	143	721	785	282	87	36	14.3		2103
PCT	2.3	6.8	34.3	37.3	13.4	4.1	1.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OVER	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	7.5	.0	4.2	6.9		4.6
NE	.8	.5	2.2	4.2		6.6
E	.0	.0	1.4	.5		6.5
SE	2.5	.5	1.0	1.1		3.6
S	2.9	2.5	3.3	1.7		4.0
SW	4.2	2.9	5.5	2.3		4.4
W	3.9	3.3	3.1	4.4		4.2
NW	7.4	1.9	7.2	7.8		5.0
VAR	.0	.0	.0	.0		.0
CALP	1.1	.0	1.1	.0		3.2
TOT OBS	39	20	53	31	183	4.6
TOT PCT	32.2	10.9	29.0	27.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	OBS
N	1.6	.0	.0	.0	.5	1.8	.9	.4	.9	.0	12.8	
NE	1.8	.0	.0	.0	.0	.7	.8	1.2	1.1	.0	1.6	
E	.0	.0	.0	.0	1.0	.0	.0	.5	.0	.0	.4	
SE	.0	.0	.0	.5	.7	.0	.4	.0	.1	.0	3.1	
S	.0	.0	.0	.8	.8	.3	.8	.0	1.0	.0	6.0	
SW	.0	.0	.0	1.9	1.1	1.0	2.7	.0	.0	.0	8.5	
W	.0	.0	.0	1.4	1.1	1.0	3.0	.0	.0	.0	10.2	
NW	2.0	.0	.0	3.0	3.3	3.0	.0	.0	.0	.0	13.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALP	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	1.6	
TOT OBS	10	0	0	14	15	15	14	4	9	0	105	183
TOT PCT	5.5	.0	.0	7.7	8.7	8.2	7.7	2.2	2.7	.0	57.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>3000	>0
>8500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>5000	3.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>3000	10.5	12.1	12.1	12.1	12.1	12.1	12.1	12.1
>2000	13.2	17.9	20.0	20.0	20.0	20.0	20.0	20.0
>1000	18.9	25.3	27.9	28.4	28.4	28.4	28.4	28.4
>600	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>300	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>150	24.2	32.1	35.3	35.8	35.8	35.8	35.8	35.8
>0	24.2	32.1	35.3	35.8	35.8	36.3	41.1	41.6
TOTAL	46	61	67	68	68	69	78	79

TOTAL NUMBER OF OBS: 190

PCT FREQ NM <5/8: 58.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL
									OBS
29.4	9.7	9.3	8.2	6.2	5.7	3.1	13.4	16.0	4.1
									194

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1954-1973

JUNE

AREA 0013 SANTA FLORIDA
79.05 90.00

TABLE 8

PERCENT FREE OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP .7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP 1.0	1.0	.7	.0	.3	.0	.0	1.0	.0	.0	.0	3.0
	TOT S 2.1	2.0	.7	.0	.3	.0	.0	1.0	.0	.0	.0	3.0
1/2<1	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP 0.0	3.0	1.0	2.4	3.0	1.7	3.0	12.4	.0	.0	.0	24.0
	TOT S 0.0	4.0	1.0	2.4	3.0	1.7	3.0	12.4	.0	.0	.0	24.0
10+	PCP .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP 7.4	2.0	1.0	3.2	6.2	0.1	10.7	10.0	.0	1.0	.0	31.0
	TOT S 8.0	2.0	1.0	3.2	6.2	0.1	10.7	10.0	.0	1.0	.0	31.0
TOT OBS												200
TOT PCT	17.5	9.0	3.5	5.6	10.4	11.2	14.1	27.0	.0	1.4	100.0	

TABLE 9

PERCENT FREE OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9 .5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	4-10 1.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
	11-21 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+ .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S 1.5	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
1/2<1	0-9 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10 .1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+ .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
1<2	0-9 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+ .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-9 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10 .1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+ .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S .1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
5<10	0-9 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10 1.0	1.7	1.0	.0	.0	1.4	.4	1.0	3.2	.0	.0	.0	14.0
	11-21 1.7	.9	.3	.3	1.3	1.4	1.1	.0	2.9	.0	.0	.0	10.4
	22+ .0	.1	.0	.0	.0	.0	.2	.2	1.7	.0	.0	.0	2.7
	TOT S 4.0	3.2	1.9	2.3	2.8	1.7	2.4	9.9	.0	.0	.0	.0	29.3
10+	0-9 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10 .0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21 5.7	1.0	.3	1.2	3.9	0.4	3.1	0.3	.0	.0	.0	.0	10.0
	22+ .0	.1	.0	.0	.0	1.1	2.3	1.7	.7	.0	.0	.0	6.0
	TOT S 6.2	2.2	1.2	3.0	6.2	11.4	12.9	11.7	.0	.0	.0	.0	36.0
TOT OBS													400
TOT PCT	15.9	7.9	3.9	6.3	9.0	13.5	15.7	23.6	.0	1.0	100.0		

PERIOD: (PROPERTY) 1000-1075
(1000-011) 1000-1075

JUNE
TABLE 10

AREA 0013 SANTA CLARITA
20.45 26.00

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, MM) AND
DISCREPANCY OF MM C/S BY HOUR

HOUR (GMT)	070 140	190 200	300 300	400 400	1000 1000	2000 2000	3000 3000	4000 4000	5000 5000	6000 6000	TOTAL OBS	MM C/S BY HOUR	TOTAL OBS
00000	2.2	.0	.0	4.4	1.2	0.7	4.4	4.4	2.2	.0	30.7	79.3	45
00009	5.3	.0	.0	7.0	10.2	7.0	7.0	.0	.0	.0	30.5	60.5	30
12015	10.0	.0	.0	10.0	10.0	2.0	10.0	.0	4.0	.0	46.0	54.0	50
10021	5.2	.0	.0	6.9	10.3	13.5	6.9	3.4	3.4	.0	50.0	50.0	50
TOT	11	0	0	14	10	15	14	4	5	0	70	112	191
PCT	5.8	.0	.0	7.3	6.4	7.9	7.3	2.1	2.6	.0	41.4	50.6	100.0

TABLE 11

PERCENT FREQUENCY VSOT (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00000	5.7	1.5	.7	0.0	29.9	50.2	134
00009	2.2	.0	1.1	0.7	20.9	61.1	90
12015	0.1	.0	1.5	5.3	31.0	55.3	132
10021	4.2	1.0	1.0	7.3	25.9	61.5	90
TOT	11	3	5	20	132	265	452
PCT	4.2	.7	1.1	6.2	29.2	50.6	100.0

TABLE 12

CUMULATIVE PCT FROM OF RANGE OF VSOT (MM) AND/OR
CEILING NET (FEET, MM) BY HOUR

HOUR (GMT)	<150 C/S	<600 C/S	<1000 C/S	1000+ C/S	MM C/S AND 5+	TOTAL OBS
00000	2.2	0.7	11.1	20.3	60.9	45
00009	5.3	5.3	15.0	23.7	60.5	30
12015	10.2	10.2	20.5	22.4	51.0	49
10021	5.2	5.2	17.2	32.0	50.0	50
TOT	11	13	34	48	100	190
PCT	5.0	6.0	17.9	25.3	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/04	.0	.0	.0	.0	.5	.5	.5	.5	4	1.0
35/39	.0	.0	.0	.5	.5	.5	.9	2.3	10	4.3
50/54	.0	.0	.0	1.4	4.5	5.9	20.0	10.9	90	43.4
65/69	.0	.0	.0	.0	.0	7.2	13.1	19.0	89	40.3
80/84	.0	.0	.0	.7	.0	.5	1.4	0.0	22	10.0
TOTAL	0	0	0	5	10	32	81	87	221	100.0
PCT	.0	.0	.0	2.3	4.5	14.5	36.7	39.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
00/04	.0	.0	.0	.0	.0	.1	1.2	.5	.0	.0
35/39	.5	1.0	.2	.0	.0	.0	.0	1.5	.0	.0
50/54	0.4	5.4	2.4	2.0	3.3	5.1	4.2	15.4	.0	.5
65/69	0.7	2.4	2.3	2.5	4.3	5.5	6.0	10.4	.0	.0
80/84	1.0	1.0	.5	2.5	2.0	.0	.2	1.4	.0	.0
TOTAL	17.0	10.4	5.3	7.0	10.2	11.5	12.4	24.3	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00000	66	50	55	40	42	40	39	48.3	644
00009	61	57	54	40	42	39	39	49.0	335
12015	67	59	55	40	43	41	39	49.8	744
10021	63	61	56	49	43	41	38	49.4	342
TOT	67	59	55	40	42	40	38	48.6	2065

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	5-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00000	.0	.0	9.2	8.6	39.7	40.6	00	00	00	50
00009	.0	4.3	4.3	15.2	39.1	37.0	00	00	00	40
12015	.0	1.0	4.3	18.0	33.3	42.0	07	09	09	69
10021	.0	3.7	14.0	13.0	37.0	31.5	03	54	54	54
TOT	0	5	16	32	64	90	06	227	227	227

JUNE

PERIOD: (001-MAR) 1949-1975
(OVER-ALL) 1954-1975

TABLE 17

AREA 0013 BAHIA BLANCA
39.05 90.64

PCT FRG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FLC (MIT-D T PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	37 44	41 44	45 48	49 52	53 56	57 60	61 64	TCT	N FUG	NO FOG
0/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/2	.0	.0	.4	1.2	.0	.4	.0	7	.0	2.7
6	.0	.0	.7	2.3	.0	.0	.0	6	.0	1.0
5	.0	.0	.8	9.5	.4	.0	.4	13	.0	4.2
4	.0	.0	1.0	2.7	1.0	.4	.0	10	.4	5.9
3	.0	.0	2.0	2.0	2.0	.4	.0	10	.4	5.9
2	.0	.0	9.4	9.9	1.0	.4	.0	39	.4	14.0
1	.0	.0	7.0	2.7	3.1	.0	.0	33	2.7	10.2
0	.0	1.7	9.9	9.1	3.9	.0	.0	36	3.1	10.9
-1	.0	2.3	1.2	9.9	.4	.0	.0	19	.0	6.0
-2	.0	2.3	2.3	2.0	1.0	.0	.0	21	.0	7.4
-3	.0	.0	1.0	1.0	.0	.0	.0	12	1.2	3.5
-4	.0	1.7	.4	2.3	.0	.0	.0	12	.4	4.2
-5	.0	.4	.4	1.0	.4	.0	.0	8	.0	3.1
-6	.0	1.7	.0	.0	.0	.0	.0	8	.0	3.1
-7/-8	.0	.4	1.0	.0	.0	.0	.0	7	.0	2.7
-9/-10	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-11/-13	.0	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1	26	87	43	5	5	250	30	220	
PCT	.4	10.2	39.5	34.7	16.9	2.0	1.2	100.0	11.7	88.3

PERIOD: (OVER-ALL) 1949-1975

TABLE 18

PCT FRG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	1.1	.0	.0	.0	.0	.0	1.5	1.1	.0	.0	.0	.0	.0	1.4
1-2	.0	3.0	4.3	.0	.0	.0	8.2	.0	.3	3.3	.0	.0	.0	3.5
3-4	.0	.0	4.3	.0	.0	.0	4.3	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	.0	1.9	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.2	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.0	12.0	.0	.0	.0	19.3	1.1	1.0	4.3	.0	.0	.0	7.9

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
C1	.0	.0	.0	.0	.0	.0	.0	1.4	1.1	.0	.0	.0	.0	2.4
1-2	.0	2.2	.0	.0	.0	.0	2.7	.0	3.3	.0	.0	.0	.0	3.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	.0	.0	.0	.0	3.0	1.4	4.3	3.0	.0	.0	.0	6.5

PERIOD: (OVER-ALL) 1953-1975

JUNE

AREA 0013 BAHIA BLANCA
39.45 56.6W

TABLE 18 (CONT.)

PCT FREQ OF WIND SPEEL (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	.0
3-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	4.3	.0	.0	.0	.0	5.7	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	2.2	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	.0	2.4	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.7	.0	.0	.0	.0	8.2	.0	2.4	10.3	1.4	.0	.0	.0	14.1	.0

HGT	SW							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	.0	2.7	.0	4.9	2.4	.0	.0	.0	.0	7.3	.0
3-6	.0	.0	.0	.0	.0	.0	.0	2.2	.0	2.2	4.7	.0	.0	.0	.0	10.9	.0
7	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	2.2	5.7	.0	.0	.0	.0	7.9	.0
8-9	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	4.1	1.1	.0	.0	.0	7.9	.0	9.2	16.8	1.1	.0	.0	.0	27.4	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.4	2.1	.0	.0	.0	.0	9.5	
1-2	1.1	17.9	10.5	.0	.0	.0	29.5	
3-6	.0	5.3	22.1	.0	.0	.0	27.4	
7	.0	2.1	11.6	.0	.0	.0	13.7	
8-9	1.1	.0	9.5	1.1	.0	.0	11.6	
10-11	1.1	.0	2.1	.0	.0	.0	3.2	
12	.0	.0	1.1	2.1	.0	.0	3.2	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.5	27.4	56.8	5.3	.0	.0	100.0	95

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	10.1	11.5	8.6	5.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	4
6-7	.0	.7	3.6	7.2	11.5	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	6
8-9	.0	1.4	1.4	4.3	2.2	1.4	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	6
10-11	.0	3.6	.0	1.4	.0	.7	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
12-13	.0	.0	.0	.0	.0	.7	.7	.7	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	7	14
13-14	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
14-15	1.4	.7	8.6	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
TOTAL	4	23	35	34	26	4	3	3	4	1	2	0	0	0	0	0	0	0	0	139	5
PCT	2.9	16.5	25.2	24.5	18.7	2.9	2.2	2.2	2.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973AREA 0013 SAMIA BLANCA
39.4S 56.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THIR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.9	.0	3.9	.0	.0	.0	.0	7.8	.0	.0	19.9	.0	3.9	.0	68.4
NE	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	9.9	.0	3.6	.0	82.9
E	5.8	5.8	.0	.0	.0	.0	.0	11.6	.0	.0	17.4	.0	5.8	.0	63.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.8	.0	.0	.0	.0	88.4
S	6.1	2.0	7.1	.0	.0	.0	.0	15.3	3.1	.0	2.0	.0	4.1	.0	75.5
SW	1.4	1.4	3.4	.0	.0	.0	.0	6.1	.7	2.7	1.4	.0	.0	.0	89.2
W	3.8	.0	1.9	.0	.0	.0	.0	5.8	.0	3.4	4.8	.0	7.7	.0	78.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.0	24.7	.0	1.6	.0	70.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.0	.0	.0	.0	75.0
TOT PCT	2.7	.7	2.0	.0	.0	.0	.0	5.4	1.0	1.7	12.2	.0	3.4	.0	76.2
TOT OBS:	294														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	1.4	1.4	1.4	.0	.0	.0	.0	4.1	1.4	2.7	14.9	.0	4.1	.0	73.0
0600	2.0	2.0	2.0	.0	.0	.0	.0	6.0	2.0	6.0	18.0	.0	.0	.0	68.0
1200	3.8	.0	1.9	.0	.0	.0	.0	5.8	.0	.0	12.5	.0	3.8	.0	77.9
1800	2.6	.0	2.6	.0	.0	.0	.0	5.2	1.3	.0	10.4	.0	3.9	.0	79.2
TOT PCT TOT OBS:	2.6 305	.7	2.0	.0	.0	.0	.0	5.2	1.0	1.6	13.4	.0	3.3	.0	79.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.6	4.0	5.6	1.7	.2	.0		12.1	13.8		11.7	12.2	16.2	10.0	13.1	12.0	20.9	11.3
NE	.8	3.2	2.2	.2	.0	.0		6.4	9.6		7.7	6.0	13.5	5.0	5.7	6.7	16.3	4.6
E	.4	2.3	.8	.2	.1	.0		3.8	9.6		4.9	3.0	7.4	2.8	3.2	4.0	2.9	4.4
SE	1.0	2.4	2.3	.7	.3	.0		7.4	12.0		7.4	7.3	6.1	6.7	6.9	9.3	7.0	3.9
S	.6	3.7	3.9	1.8	.6	.2		10.4	15.3		10.7	9.4	8.1	10.6	10.9	10.2	11.0	10.5
SW	1.4	3.3	5.6	2.1	1.0	.2		13.8	14.6		16.3	17.0	12.2	15.7	15.0	13.7	13.7	19.1
W	1.8	7.0	5.7	2.2	1.6	.6		18.3	14.1		17.1	18.4	13.5	18.9	17.4	19.5	19.2	18.6
NW	.8	6.6	10.6	4.0	.7	.0		22.6	15.1		20.1	22.9	20.3	27.2	23.5	22.0	7.0	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		4.0	3.7	2.7	3.0	4.3	2.6	.0	2.4
TOT OBS	208	697	725	254	88	8	1980		13.4		296	267	27	268	327	434	43	286
TOT PCT	10.9	33.2	36.6	12.8	4.4	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WMD DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	2.2	3.3	3.6	.8	.0		12.1	13.8	11.9	10.7	12.3	12.3		
NE	2.2	3.4	.7	.1	.0		6.4	9.6	6.9	6.1	6.3	6.2		
E	1.6	1.7	.4	.1	.0		3.8	9.6	4.0	3.4	3.6	4.2		
SE	2.4	3.0	1.4	.3	.0		7.4	12.0	7.3	6.6	6.3	6.1		
S	2.1	4.1	2.9	.9	.3		10.4	15.3	10.0	10.3	10.5	10.6		
SW	4.0	6.6	3.2	1.4	.6		13.8	14.6	16.6	15.2	14.2	18.7		
W	3.1	7.0	3.7	2.2	.3		18.3	14.1	17.7	18.3	18.6	18.7		
NW	3.2	10.0	7.7	2.1	.1		22.6	15.1	21.5	26.4	22.7	21.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.2						3.2	.0	3.9	3.0	3.3	2.1		
TOT OBS	318	818	460	198	26	1980		13.4	363	305	781	329		
TOT PCT	26.2	41.3	23.2	8.0	1.3		100.0		100.0	100.0	100.0	100.0		

JULY

PERIOD: (PRIMARY) 1904-1975
(OVER-ALL) 1867-1975AREA 0013 SANJA BLANCA
39.4° 56.7W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	3.9	8.5	34.9	37.2	11.0	4.4	.2	12.8	100.0	563
0600Z	3.0	5.2	38.0	39.0	10.2	3.9	.7	13.4	100.0	305
1200Z	3.3	7.9	32.8	35.7	15.1	4.9	.3	13.8	100.0	781
1800Z	2.1	5.5	38.9	35.6	13.1	4.0	.9	13.3	100.0	329
TOT	64	144	497	725	254	88	8	13.4		1980
PCT	3.2	7.3	35.2	36.6	12.8	4.4	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
M	2.0	.5	9.1	4.9		6.2
NE	1.3	.8	2.2	7.0		6.5
E	1.7	.0	1.7	3.7		3.5
SE	.9	.7	.0	2.3		3.3
S	1.3	.7	5.9	3.9		6.1
SW	4.2	2.2	6.5	2.2		4.6
W	6.7	1.2	3.3	3.4		3.4
NW	4.5	1.3	4.5	5.3		4.7
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	1.3	.0		4.3
TOT OBS	38	11	31	44	149	5.1
TOT PCT	25.5	7.4	34.7	32.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 499	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
2.5	.0	.0	1.3	.7	1.2	1.3	.0	.5	1.0	7.9	
.2	.0	.0	.7	.8	.7	3.7	.7	.7	.0	4.4	
.7	.0	.0	.0	1.8	.7	.5	.5	.0	.0	2.3	
.0	.0	.0	.7	.0	.0	.2	.2	.0	.0	2.9	
1.0	.0	.0	1.7	.5	.8	2.7	1.3	.7	.0	3.0	
.3	.0	.0	.3	.2	2.5	2.2	1.3	.0	.0	8.2	
.0	.0	.0	.7	1.0	1.2	1.7	.0	.0	.7	11.8	
.7	.0	.0	1.3	.3	.3	1.3	.0	.8	.3	10.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7	
8	0	0	11	8	12	20	6	4	3	77	
3.4	.0	.0	7.4	3.4	8.1	13.4	4.0	2.7	2.0	31.7	
											149
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	3.9	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>5000	7.2	8.6	8.6	8.6	8.6	8.6	8.6	8.6
>3500	17.0	21.7	21.7	21.7	21.7	21.7	21.7	21.7
>2000	25.0	29.6	29.6	29.6	29.6	29.6	29.6	29.6
>1000	27.6	34.2	34.2	34.2	34.2	34.9	35.3	35.3
>600	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>300	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>150	32.2	40.1	40.8	41.4	41.4	42.1	42.8	42.8
>0	32.2	40.1	42.1	42.8	43.4	45.4	46.7	48.0
TOTAL	49	61	64	65	66	69	71	73

TOTAL NUMBER OF OBS: 132

PCT FREQ NM <5/8: 32.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	19.0	7.0	12.0	8.2	5.1	5.7	10.8	9.5	19.0	3.8	138

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1967-1975

JULY

AREA 0013 SAMIA BLANCA
39.45 50.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	2.2	.6	1.0	.0	.0	.0	.0	2.1	.0	.3	6.2	
	TOT S	2.5	.6	1.0	.0	.0	.0	.0	2.1	.0	.3	6.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.9	.3	.0	.0	.2	.2	.0	.2	.0	.0	1.7	
	TOT S	.9	.3	.0	.0	.2	.2	.0	.2	.0	.0	1.7	
1<2	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.7	.0	.0	.7	
	TOT S	.3	.0	.0	.0	.0	.3	.0	.7	.0	.0	1.0	
2<5	PCP	.3	.0	.0	.0	.5	.2	.0	.0	.0	.0	1.0	
	NO PCP	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.0	
	TOT S	1.0	.0	.0	.0	.5	.2	.3	.0	.0	.0	2.1	
5<10	PCP	.3	.3	.0	.0	.2	.5	1.0	.0	.0	.0	3.1	
	NO PCP	5.2	2.6	1.3	2.8	1.9	1.9	8.2	11.0	.0	.0	34.8	
	TOT S	5.5	2.9	2.0	2.8	2.1	2.4	9.2	11.0	.0	.0	37.9	
10+	PCP	.0	.0	.0	.0	.6	.1	.0	.0	.0	.0	.7	
	NO PCP	6.1	5.7	2.9	3.2	5.1	9.9	8.7	7.3	.0	1.0	30.0	
	TOT S	6.1	5.7	2.9	3.2	5.7	10.0	8.7	7.3	.0	1.0	30.7	
TOT OBS													290
TOT PCT		16.4	9.6	5.9	5.9	8.4	12.8	17.9	21.6	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.3	.0	.0	.0	.0	.3	.0	.3	1.0	
	4-10	.0	.1	.5	.0	.0	.0	.0	.6	.0	.0	2.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT S	1.0	.4	.8	.0	.0	.0	.0	1.8	.0	.3	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.8	
	11-21	.4	.0	.0	.0	.1	.1	.0	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.6	.3	.3	.0	.1	.1	.0	.1	.0	.0	1.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT S	.3	.0	.0	.0	.0	.0	.0	.8	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.4	.1	.3	.0	.0	.0	.0	.0	.0	1.3	
	11-21	.0	.0	.3	.0	.0	.0	.4	.3	.0	.0	2.3	
	22+	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.3	
	TOT S	1.3	.4	.4	.3	.4	.8	.4	.3	.0	.3	4.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	4-10	1.1	1.7	.7	.0	.4	.6	2.6	2.7	.0	.0	9.8	
	11-21	2.7	.8	.3	1.9	.8	1.1	1.4	4.3	.0	.0	13.4	
	22+	.2	.3	.6	.3	.3	.3	3.3	1.1	.0	.0	6.8	
	TOT S	4.0	2.8	2.0	2.1	1.3	2.3	7.2	8.3	.0	.0	30.2	
10+	0-3	.0	.6	.2	.0	.0	.0	.0	.0	.0	1.3	2.0	
	4-10	1.1	1.8	2.3	1.8	2.1	3.3	3.3	2.1	.0	.0	17.6	
	11-21	4.6	2.9	.3	1.4	2.5	7.1	4.9	3.3	.0	.0	29.2	
	22+	.6	.3	.0	.9	1.3	1.7	2.2	1.6	.0	.0	8.0	
	TOT S	6.2	5.8	2.8	4.0	3.9	12.1	10.4	9.3	.0	1.3	57.7	
TOT OBS													397
TOT PCT		14.2	9.6	6.1	6.6	7.9	15.2	18.0	20.5	.0	1.8	100.0	

JULY

 PERIOD: (PRIMARY) 1964-1973
 (COVER-ALL) 1967-1973

 AREA 0013 RAMIA BLANCA
 39.45 96.7W

TABLE 10

 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
 OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 399	300 499	400 1000	500 1999	600 3499	700 4999	800 6499	9000+	TOTAL	NM <5/8 ANY MET	TOTAL OBS
00003	.0	.0	.0	9.7	6.5	12.9	9.7	3.2	.0	.0	41.9	58.1	31
06009	9.7	.0	.0	.0	6.5	9.7	12.9	3.2	3.2	3.2	48.4	51.6	31
12015	6.1	.0	.0	6.1	6.1	8.2	14.3	2.0	6.1	2.0	51.0	49.0	49
18021	6.8	.0	.0	11.4	4.5	2.3	13.6	6.8	.0	2.3	47.7	52.3	44
TOT	9	0	0	11	9	12	20	6	4	3	74	81	155
PCT	5.8	.0	.0	7.1	5.8	7.7	12.9	3.9	2.6	1.9	47.7	52.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	5.8	.0	1.9	1.9	36.5	53.8	104
06009	8.5	1.4	1.4	5.6	23.9	59.2	71
12015	4.3	2.9	.7	5.0	28.1	59.0	139
18021	4.3	1.1	.0	5.3	35.1	54.3	94
TOT	22	6	4	18	127	231	408
PCT	5.4	1.5	1.0	4.4	31.1	56.6	100.0

TABLE 12

 CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
 CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.4	17.2	31.0	51.7	29
06009	9.7	9.7	12.9	38.7	48.4	31
12015	4.2	6.2	14.6	37.5	47.9	48
18021	6.8	6.8	18.2	29.5	52.3	44
TOT	8	10	24	52	76	152
PCT	5.3	6.6	13.8	34.2	50.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	.5	.0	1	.5
55/59	.0	.0	.0	.0	.5	1.1	.5	1.1	6	3.2
50/54	.0	.0	.0	1.6	2.1	4.3	10.7	8.6	31	27.3
45/49	.0	.0	.0	1.1	2.7	11.2	13.0	13.0	99	52.9
40/44	.0	.0	.0	.0	2.1	3.2	2.7	8.0	30	16.0
TOTAL	0	0	0	5	14	37	55	76	187	100.0
PCT	.0	.0	.0	2.7	7.5	19.8	29.4	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
55/59	.0	.5	.0	.5	.0	.0	.4	.8	.0	.0
50/54	6.0	2.4	.5	.0	.7	4.3	5.2	7.6	.0	.5
45/49	12.2	.7	3.6	5.3	5.3	3.5	8.0	14.3	.0	.0
40/44	1.1	1.1	.9	1.9	2.3	4.5	1.3	2.4	.0	.5
TOT	20.2	4.7	5.1	7.8	8.3	12.3	15.0	23.7	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	55	53	47	42	40	38	46.9	368
06009	62	56	53	46	42	39	37	46.5	306
12015	60	57	54	48	42	39	36	47.8	770
18021	60	57	54	48	42	41	39	48.1	323
TOT	62	56	53	47	42	39	36	47.4	1969

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	4.2	16.7	27.1	47.9	87	48		
06009	.0	.0	8.9	20.0	22.2	48.9	87	45		
12015	.0	3.3	6.7	21.7	36.7	31.7	84	60		
18021	.0	2.3	9.1	15.9	31.8	40.9	83	44		
TOT	0	5	14	37	59	82	86	197		

JULY

PERIOD: (PRIMARY) 1900-1975
(OVER-ALL) 1867-1975AREA 0013 BAHIA BLANCA
39.4S 56.7W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 46	44 52	53 56	57 60	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.7	.0	2	.0	.7
7/8	.0	.0	.0	1.0	1.0	.3	7	.0	2.4
6	.0	.0	.3	.3	.0	.0	2	.0	.7
5	.0	.0	1.0	1.0	1.0	.0	9	.3	2.7
4	.0	.0	4.1	2.4	.7	.3	22	3.1	4.5
3	.0	.0	5.8	3.4	2.1	.0	33	3.4	7.9
2	.0	1.0	8.2	3.4	2.4	.3	45	2.7	12.7
1	.0	.7	2.1	3.8	4.5	.0	32	1.4	9.6
0	.0	1.7	6.5	4.5	.7	.0	29	.7	12.7
-1	.0	1.0	1.7	3.4	.0	.0	18	1.4	4.8
-2	.0	2.1	1.4	4.1	.3	.0	23	.0	7.9
-3	.0	1.4	2.4	2.7	.0	.0	19	.3	6.2
-4	.3	1.4	2.4	.7	.0	.0	14	.0	4.8
-5	.0	.7	4.1	.7	.0	.0	16	.0	5.3
-6	.3	1.0	.7	.3	.0	.0	7	.0	2.4
-7/-8	.3	.0	.3	.0	.0	.0	2	.3	.3
-11/-13	.0	.3	.3	.0	.0	.0	2	.3	.3
TOTAL	3		121		39		292	41	251
PCT	1.0	11.3	41.4	31.8	13.4	1.0	100.0	14.0	86.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	1.9	1.4	1.1	1.1	.0	.0	.0	3.6
1-2	1.1	3.1	.0	.0	.0	.0	8.6	.0	2.3	3.3	.0	.0	.0	5.8
3-4	.0	.0	3.9	.0	.0	.0	3.9	.0	1.4	.3	.0	.0	.0	1.7
5-6	.0	.0	1.1	.8	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.0	9.4	.8	.0	.0	16.4	1.4	6.1	9.8	.0	.0	.0	13.3

HEGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	2.0
1-2	.0	.8	.0	.0	.0	.0	.8	.0	1.4	1.1	.0	.0	.0	2.3
3-4	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.1	.8	.0	.0	.0	7.8	.0	1.4	1.4	.0	.0	.0	2.8

PERIOD: (OVER-ALL) 1963-1975

JULY

AREA 0013 BAHIA BLANCA
39.4S 56.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	2.3	2.2	.0	.0	.0	4.7	.0	.8	3.6	.0	.0	.0	4.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.8	.0	.0	.0	3.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.2	.0	.0	.0	2.5
7	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.8	.0	.8	1.7	.0	.0	.0	.3	.0	.3	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	2.2	1.9	.8	.8	8.3	.0	3.1	8.6	.3	.3	.3	12.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	1.1	.8	.0	.0	.0	1.9	.0	3.3	1.1	.0	.0	.0	4.4	
3-4	.0	1.9	1.7	.0	.0	.0	3.6	.0	1.4	2.9	.0	.0	.0	3.9	
5-6	.0	.8	1.1	.8	.0	.0	2.8	.0	.0	4.4	.8	.0	.0	5.0	
7	.0	.0	4.2	1.1	.0	.0	5.3	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.8	.0	1.1	
10-11	.0	.0	.0	.8	.0	.8	.8	.0	.0	.0	1.4	.8	.0	1.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.7	.8	.0	2.5	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	1.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.0	7.8	4.4	.8	.0	18.1	.0	6.1	9.4	2.5	.3	.0	18.3	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	7.8	1.1	.0	.0	.0	13.3	
1-2	1.1	15.6	18.7	.0	.0	.0	35.3	
3-4	.0	10.0	11.1	.0	.0	.0	21.1	
5-6	.0	2.2	8.9	2.2	.0	.0	13.3	
7	.0	.0	8.7	2.2	.0	.0	10.9	
8-9	.0	.0	1.1	.0	1.1	.0	2.2	
10-11	.0	.0	.0	3.3	.0	1.1	4.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.2	1.1	.0	3.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	35.6	45.6	10.0	2.2	1.1	100.0	90

PERIOD: (OVER-ALL) 1951-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	13.4	18.8	4.3	3.6	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	3
6-7	.0	1.8	6.3	9.8	6.3	3.6	1.8	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	37	7
8-9	.0	.0	1.8	2.7	2.7	1.8	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	.0	.9	.9	.3	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
TOTAL	4	19	31	19	13	12	6	1	4	0	1	0	0	0	0	0	0	0	0	112	5
PCT	3.6	17.0	27.7	17.0	13.4	10.7	5.4	.9	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1971-1975

AUGUST

AREA 0013 BAHIA BLANCA
39.33 96.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNC DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	PDG WD PCPN	PDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.7	.0	1.6	.0	89.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	17.3	.0	5.3	.0	72.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.3	.0	.0	.0	68.6
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	81.8
S	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	7.1	.0	.0	.0	88.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0	.0	.0	90.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0	1.3	.0	94.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.4	.0	4.3	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.4	.0	.0	.0	.0	.4	.0	1.3	8.9	.0	1.8	.0	87.5
TOT OBS:	224														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIR	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	PDG WD PCPN	PDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0800	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.8	.0	1.8	.0	86.0
0809	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	11.6	.0	2.3	.0	83.7
1201	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	2.9	.0	1.4	.0	94.2
1802	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	.0	1.7	.0	89.0
TOT PCT TOT OBS:	.0 229	.0	.4	.0	.0	.0	.0	.4	.0	1.3	8.7	.0	1.7	.0	87.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	.6	4.3	4.6	1.0	.4	.6		11.1	13.2		11.3	11.2	12.2	9.3	10.2	10.9	14.4
NE	.7	3.9	3.7	1.3	.1	.6		8.7	12.6		6.6	6.9	9.2	7.0	9.2	10.2	13.1
E	.6	2.3	1.8	.2	.3	.2		3.3	13.1		5.0	5.8	5.1	5.4	5.8	5.7	4.1
SE	.7	4.1	3.2	1.7	.7	.2		10.7	13.2		10.1	11.0	6.6	11.9	11.8	10.8	2.9
S	1.3	4.7	3.6	1.3	.3	.2		12.1	13.3		12.0	12.1	9.2	13.1	12.7	11.9	12.3
SW	1.3	3.7	4.4	1.8	1.0	.1		14.4	13.7		13.3	13.8	10.7	16.4	13.7	11.2	16.0
W	1.3	6.3	3.8	1.9	.4	.0		16.1	12.9		16.2	16.2	19.4	13.9	13.2	16.3	22.3
NW	1.1	6.6	6.6	3.2	.3	.0		19.9	14.3		16.6	19.9	23.3	21.9	18.3	20.9	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		3.0	1.3	2.0	1.6	.0	2.3	1.6
TOT OBS	197	763	692	231	76	14	1995		13.4		303	266	49	237	319	488	61
TOT PCT	9.9	38.3	34.7	12.6	3.8	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	15
N	2.1	3.7	2.3	.7	.1			11.1	13.2		11.2	9.8	10.6	13.3	
NE	2.3	3.7	2.1	.3	.1			8.7	12.6		7.0	7.4	9.8	9.4	
E	1.3	2.3	1.1	.1	.3			3.3	13.1		5.0	5.4	5.8	3.7	
SE	2.3	4.3	2.3	1.0	.4			10.7	13.2		10.3	10.3	11.2	9.7	
S	3.9	4.8	2.2	.8	.3			12.1	13.3		12.1	12.3	12.1	11.9	
SW	4.1	3.7	2.8	1.3	.9			14.4	13.7		13.8	13.3	12.9	13.0	
W	3.6	7.1	4.0	.9	.2			16.1	12.9		16.2	14.8	13.9	17.6	
NW	3.7	6.3	6.2	1.6	.1			19.9	14.3		19.2	22.3	20.0	16.6	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.8							1.8	.0		2.3	1.6	1.7	1.3	
TOT OBS	312	841	464	143	35	1995			13.4		369	306	807	313	
TOT PCT	29.7	42.2	23.3	7.2	1.8			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1971-1975

AUGUST

AREA 0013 BAHIA BLANCA
39.35 56.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	2.3	7.7	38.1	26.4	9.8	4.7	.9	13.3	100.0	569	
0600	1.6	8.5	41.2	31.7	12.7	3.6	.7	12.9	100.0	306	
1215	1.7	8.1	37.3	34.7	14.0	3.6	.6	13.6	100.0	807	
1821	1.3	8.3	38.7	34.5	13.7	2.9	.6	13.3	100.0	313	
TOT	96	141	765	692	251	76	14	13.4		1995	
PCT	1.6	8.1	38.3	34.7	12.6	3.8	.7	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	1.1	3.2	4.1		3.9
NE	.9	1.6	4.8	1.8		3.6
E	.0	.7	1.1	1.4		4.5
SE	1.8	.2	.4	2.9		3.1
S	3.3	2.7	1.2	1.1		3.6
SW	7.6	3.1	8.9	2.3		3.9
W	7.6	2.9	2.7	1.1		2.6
NW	9.6	2.8	4.8	2.3		3.1
VAR	.0	.0	.0	.0		.0
CALM	1.4	.7	.7	.0		2.2
TOT OBS	55	24	39	23	141	3.8
TOT PCT	39.0	17.0	27.7	16.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 3499	2000 4999	3500 6499	5000 7999	6500 8000+	NM <5/8 ANY HGT	TOTAL OBS
.5	.0	.7	.4	1.2	.5	1.8	.5	.0	.0	9.2
.2	.0	.0	.0	.7	2.3	.7	.2	.0	.0	5.0
.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	1.8
.7	.0	.0	.2	.0	.7	.0	.0	.0	.0	3.0
.0	.0	.0	.5	1.2	.5	.0	.0	.0	.0	6.2
.7	.0	.0	.0	3.0	2.2	1.4	.0	.7	.0	14.9
.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	12.8
.0	.0	.0	1.1	1.1	.7	.4	.0	.0	.0	16.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.1
9	0	1	4	12	12	6	1	1	1	100
2.1	.0	.7	2.8	8.5	8.5	4.4	.7	.7	.7	70.9
										100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR				OR >0
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>OR >4900	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>OR >3000	.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>OR >2000	2.1	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
>OR >1000	9.9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
>OR >500	17.6	21.8	22.5	22.5	22.5	22.5	22.5	22.5	22.5
>OR >200	18.3	24.6	25.4	25.4	25.4	25.4	25.4	25.4	25.4
>OR >100	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1
>OR >50	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1
>OR >0	19.0	25.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1
TOTAL	27	36	37	37	37	38	39	39	40

TOTAL NUMBER OF OBS: 142

PCT FREQ NM <5/8: 71.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
36.9	9.4	12.8	6.7	9.4	6.0	4.7	7.4	8.7	2.0	149

AUGUST

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975APEA 0015 SANIA BLANCA
39.55 56.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCY	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.8	.2	.7	.7	1.8	.0	.0	.0	.0	.0	4.9
	TOT %	.3	.8	.2	.7	.7	1.8	.0	.0	.0	.0	.0	4.9
1/2<1	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.4	.2	.2	.0	.0	.0	.4	.9	.0	.0	.0	2.7
	TOT %	.4	.2	.2	.0	.4	.0	.4	.9	.0	.0	.0	2.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.9	.0	.0	.0	.4	.2	.2	.0	.0	.0	1.8
	TOT %	.0	.9	.0	.0	.0	.4	.2	.2	.0	.0	.0	1.8
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	4.4	1.8	1.8	1.7	2.1	5.6	5.3	6.5	.0	.4	.4	29.6
	TOT %	4.4	1.8	1.8	1.7	2.1	5.6	5.3	6.5	.0	.4	.4	29.6
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	8.2	4.6	1.3	2.6	6.2	14.8	9.4	13.0	.0	1.3	1.3	61.4
	TOT %	8.2	4.6	1.3	2.6	6.2	14.8	9.4	13.0	.0	1.3	1.3	61.4
TOT OBS													223
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCY	TOTAL OBS
<1/2	0-3	.1	.1	.0	.1	.1	.0	.0	.3	.0	.0	.0	.8
	4-10	.0	.4	.1	.0	.0	1.1	.0	.3	.0	.0	.0	2.1
	11-21	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.6	.1	.4	.1	1.1	.0	.3	.0	.0	.0	3.4
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.1	.1	.1	.0	.3	.0	.3	.4	.0	.0	.0	1.3
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.3	.1	.0	.3	.0	.3	.5	.0	.0	.0	1.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.3	.0	.0	.0	.0	.3	.4	.4	.0	.0	.0	1.3
	11-21	.1	.3	.0	.0	.0	.3	.0	.1	.0	.0	.0	1.1
	22+	.0	.3	.0	.0	.0	.7	.1	.0	.0	.0	.0	1.2
	TOT %	.4	1.1	.0	.3	.0	1.2	.3	.5	.0	.0	.0	3.9
5<10	0-3	.0	.3	.3	.0	.0	.3	.3	.0	.0	.3	.0	1.8
	4-10	1.8	1.3	1.4	1.2	.8	1.4	1.0	1.8	.0	.0	.0	10.8
	11-21	1.9	1.2	.3	.1	1.9	1.7	2.4	3.3	.0	.0	.0	12.9
	22+	.0	.0	.0	.0	.3	2.0	.4	.0	.0	.0	.0	2.8
	TOT %	3.8	3.3	2.0	1.3	3.0	5.4	4.0	5.3	.0	.3	.3	28.2
10+	0-3	.3	.0	.8	.3	.3	1.3	.9	.4	.0	1.1	.0	5.3
	4-10	2.4	1.1	1.2	2.6	3.2	3.3	3.6	3.9	.0	.0	.0	23.3
	11-21	2.9	2.4	.3	.1	2.7	5.4	4.9	5.1	.0	.0	.0	23.7
	22+	1.0	.3	.0	.3	1.0	2.0	2.0	1.3	.0	.0	.0	7.9
	TOT %	6.8	3.7	2.2	3.3	7.2	14.1	11.4	12.6	.0	1.1	1.1	62.8
TOT OBS													380
TOT PCT													100.0

PERIOD: 1961-1971 1971-1975
(OVER-ALL) 1971-1975

AUGUST

AREA 0013 SAMIA BLA-CA
39.35 36.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, MM >4/8) AND
OCCURRENCE OF MM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	MM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.9	3.4	6.9	6.9	.0	.0	3.4	27.6	72.4	29
06009	3.1	.0	.0	.0	6.3	9.4	3.1	.0	.0	.0	21.9	78.1	32
12015	.0	.0	2.4	.0	14.3	4.8	2.4	.0	.0	.0	23.8	76.2	42
18021	4.3	.0	.0	4.3	6.8	11.4	4.3	2.3	2.3	.0	36.4	63.6	44
TOT	3	0	1	4	12	12	6	1	1	1	41	106	147
PCT	2.0	.0	.7	2.7	8.2	8.2	4.1	.7	.7	.7	27.9	72.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	3.7	1.9	.0	4.6	37.0	52.8	108
06009	4.0	2.7	.0	4.0	30.7	58.7	75
12015	.9	.0	.0	3.4	23.9	69.8	116
18021	5.8	3.3	.0	3.3	18.6	60.6	86
TOT	13	7	0	15	109	241	386
PCT	3.4	1.8	.0	3.9	28.3	62.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MM) AND/OR
CEILING HGT (FEET, MM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	MM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	6.9	20.7	72.4	29
06009	3.4	3.4	3.4	20.7	75.9	29
12015	.0	2.4	4.8	19.0	76.2	42
18021	4.6	4.6	11.9	26.2	61.9	42
TOT	3	4	10	31	101	142
PCT	2.1	2.8	7.0	21.8	71.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
55/59	.0	.0	.0	.0	1.8	1.8	1.8	1.8	16	7.2
50/54	.0	.0	.0	.9	2.2	4.9	11.7	9.0	64	28.7
45/49	.0	.0	.0	.9	2.7	11.2	10.3	17.3	93	42.6
40/44	.0	.0	.4	.4	2.2	4.3	6.3	7.2	47	21.1
TOTAL	0	0	1	5	20	30	67	80	223	100.0
PCT	.0	.0	.4	2.2	9.0	22.4	30.0	35.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
1.1	1.0	.0	.0	.0	.6	1.5	3.0	.0	.0
4.8	1.7	.4	.0	1.1	5.9	7.7	7.0	.0	.0
8.3	4.3	1.3	1.3	4.1	7.2	6.4	8.1	.0	1.3
.8	1.3	1.1	3.1	2.4	5.4	4.0	2.5	.0	.4
15.2	8.7	2.9	4.3	7.6	19.1	19.6	20.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	37	32	46	41	39	37	46.2	552
06009	66	36	32	43	40	39	37	43.7	304
12015	61	39	33	47	42	39	34	47.6	797
18021	61	39	36	48	42	40	39	48.3	308
TOT	66	38	34	47	41	39	34	47.0	1968

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.5	9.3	17.3	24.6	49.1	86	37		
06009	.0	.0	12.5	18.8	31.3	37.3	85	48		
12015	.0	.0	3.2	23.8	37.1	33.9	85	62		
18021	.0	6.7	15.0	26.7	26.7	25.0	60	60		
TOT	0	5	20	51	68	82	84	227		

AUGUST

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

AREA 0013 SANJA BLANCA
39.32 96.04

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	h FOG	40 FOG
14/16	.0	.0	.0	.5	.0	.0	1	.0	.5
9/10	.0	.0	.0	.5	.0	.5	2	.0	1.0
7/8	.0	.0	.0	1.0	.5	.0	3	.0	1.5
6	.0	.0	2.0	1.0	.5	.0	7	.5	3.1
5	.0	.0	2.0	1.0	1.0	.0	9	.5	4.1
4	.0	7.1	3.1	2.0	.0	.0	24	2.6	9.7
3	.0	2.0	1.5	1.0	.0	.0	9	.5	4.1
2	.0	0.6	0.1	.0	.0	.0	25	3.1	9.7
1	2.0	4.0	3.1	.0	.0	.0	19	1.5	8.2
0	7.1	6.1	3.1	.5	.0	.0	33	.5	16.3
-1	4.1	3.1	.0	.0	.0	.0	14	.5	6.6
-2	3.1	3.6	2.0	.0	.0	.0	18	.0	9.2
-3	2.0	3.1	1.0	1.0	.0	.0	14	.5	6.6
-4	.5	.5	.5	.0	.0	.0	3	.0	1.5
-5	.5	2.0	1.0	.0	.0	.0	7	.0	3.6
-6	.5	.5	.0	.0	.0	.0	2	.0	1.0
-7/-8	.5	1.0	.0	.0	.0	.0	3	.0	1.5
-9/-10	.0	.0	1.0	.0	.0	.0	2	.0	1.0
-11/-13	.0	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	40	80	54	17	4	1	196	20	176
PCT	20.4	40.8	27.6	8.7	2.0	.5	100.0	10.2	87.8

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	1.9	1.4	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	3.7	.0	.0	.0	.0	3.7
3-4	.0	1.4	.0	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.0	2.8	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	1.4	.0	4.2	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
12	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	3.6	4.9	4.6	1.4	.0	18.1	.0	4.2	4.2	.0	.0	.0	8.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.9	.0	.0	.0	.9

PERIODS (OVER-ALL) 1963-1975

AUGUST

AREA 0213 84-21 BLANCA
79.35 90.84

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.2	.0	.0	.0	3.2	.0	5.6	.0	.0	.0	.0	0.5
3-4	.0	1.4	3.2	.0	.0	.0	4.6	.0	7.0	1.0	.0	.0	.0	9.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	1.4	1.0	.0	.0	3.2	.0	.0	.0	1.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	7.9	1.9	.0	.0	11.1	.0	15.3	4.2	2.3	.0	.0	21.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.8	1.4	.0	.0	.0	4.2	.0	1.9	2.3	.0	.0	.0	4.2	.0
3-4	.0	.0	2.8	.0	.0	.0	2.8	.0	5.6	4.6	.0	.0	.0	10.2	.0
5-6	.0	.0	3.7	.0	.0	.0	3.7	.0	.0	1.9	.0	.0	.0	2.8	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	1.9	.0	.0	.0	1.9	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.3	1.4	.0	.0	13.4	.0	7.9	11.6	.9	.5	.0	20.8	60.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.6	3.7	.0	.0	.0	.0	9.3	
1-2	.0	16.7	7.4	.0	.0	.0	24.1	
3-4	1.9	16.7	14.8	.0	.0	.0	33.3	
5-6	.0	.0	7.4	3.7	.0	.0	11.1	
7	.0	.0	7.4	3.7	1.9	.0	13.0	
8-9	.0	.0	1.9	1.9	.0	.0	3.7	
10-11	.0	.0	1.9	.0	.0	.0	1.9	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.9	.0	.0	.0	1.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	37.0	42.6	11.1	1.9	.0	100.0	34

PERIODS (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	13.2	17.6	7.7	1.1	2.2	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	4
6-7	.0	3.3	7.7	5.5	4.4	6.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	6
8-9	.0	.0	.0	2.2	3.3	4.4	3.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
10-11	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
12-13	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	1	13	24	18	10	12	5	5	0	1	0	0	0	0	0	0	0	0	0	91	5
PCT	1.1	16.3	26.4	19.8	11.0	13.2	5.5	5.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1968-1973
(OTHER-ALL) 1968-1973

AREA 0013 SANTA BLANCA
39.85 57.14

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.5	.5	.0	.0	.0	.0	.0	1.1	1.1	.5	27.9	.0	.4	.3	68.3
NE	8.0	.7	.7	.0	.0	.0	.0	7.5	3.7	.7	31.7	.7	.0	.0	56.3
E	4.7	.0	7.0	.0	.0	.0	.0	11.7	1.8	.0	15.8	.0	.0	.0	78.8
SE	7.3	.0	.0	.0	.0	.0	.0	7.3	.4	2.4	7.3	.0	.0	.0	82.3
S	1.7	.0	.0	.0	.0	.0	.0	1.7	2.9	.0	18.7	.0	.0	.0	84.7
SW	.0	.0	.0	.0	.0	.0	.0	1.6	.2	.0	4.1	.0	1.3	.0	92.9
W	1.1	1.0	.0	.0	.0	.0	.0	2.7	.0	.0	6.4	.0	.0	.0	91.0
NW	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	3.4	.0	.3	.0	93.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	.0	28.6	.0	.0	.0	89.0
TOT PCT	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
TOT OBS:	843														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAUL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	2.0	.5	.5	.0	.0	.0	.0	3.0	.5	.5	22.6	.0	.0	.0	73.4
0400	2.6	1.1	1.6	.0	.0	.0	.0	5.3	1.1	1.1	13.7	.5	.0	.0	78.9
1201	1.6	.4	.0	.0	.0	.0	.0	2.0	1.4	.4	17.5	.0	.0	.4	78.3
1801	3.3	.5	.0	.0	.0	.0	.0	3.8	1.4	.0	11.8	.0	1.4	.0	81.5
	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1
851															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21		
N	.4	6.2	7.5	1.3	.7	.0		15.9	12.7	17.1	9.1	21.7	12.4	16.8	12.7	22.5	13.4			
NE	.4	6.9	4.2	.7	.2	.0		12.5	11.9	17.4	11.9	18.8	8.1	19.2	11.7	14.9	9.0			
E	.9	3.1	1.8	.5	.2	.1		6.2	11.8	8.6	7.9	3.9	5.6	4.8	7.4	3.1	9.6			
SE	1.3	4.6	3.9	1.5	.2	.0		11.9	12.2	13.2	15.8	4.1	15.8	6.4	12.8	4.4	19.6			
S	.9	3.7	4.2	1.8	.3	.1		10.8	13.8	9.5	12.5	4.5	13.1	9.6	14.0	7.9	13.9			
SW	1.1	5.9	6.6	1.8	.7	.1		15.8	14.0	19.5	14.7	17.7	14.0	19.0	12.3	22.4	12.4			
W	.6	4.8	4.5	.6	.0	.0		10.3	11.0	8.9	11.7	14.3	10.3	11.6	8.9	3.6	9.2			
NW	.9	6.0	7.9	1.2	.4	.1		14.0	13.1	10.4	14.6	8.8	19.0	14.5	18.5	9.7	14.7			
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.0							3.0	.0	3.5	2.2	6.3	1.8	2.0	1.7	6.0	3.1			
TOT OBS	209	966	912	220	50	8	2365		12.3	425	226	191	224	451	420	199	229			
TOT PCT	8.8	40.8	38.6	9.3	2.1	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.6	7.9	3.9	.3	.0			15.9	12.7	14.3	16.7	15.8	17.6		
NE	2.8	7.4	2.0	.1	.1			12.5	11.9	11.4	13.1	13.5	11.4		
E	2.1	2.9	.8	.2	.2			6.2	11.8	7.0	4.8	6.1	6.6		
SE	3.5	4.9	2.4	.6	.1			11.9	12.2	14.1	10.4	10.5	10.5		
S	2.5	4.5	3.0	.3	.2			10.8	13.8	10.3	9.1	11.8	10.9		
SW	3.7	7.2	3.5	1.2	.3			19.8	14.0	17.9	15.7	13.7	17.1		
W	2.8	5.4	2.0	.2	.0			10.3	11.0	9.9	12.1	10.3	9.3		
NW	2.8	7.4	2.9	.7	.2			14.0	13.1	11.8	14.3	16.4	12.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	3.0							3.0	.0	3.1	3.9	1.8	4.4		
TOT OBS	632	1125	482	97	29	2365			12.3	631	415	871	428		
TOT PCT	26.7	47.6	20.4	4.1	1.2			100.0		100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PREPARED) 1976-1977
(COVER-ALL) 1968-1975

AREA 0013 SANTA BLANCA
39.85 57.14

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SNOW	CRZL	FRZG PCPN	SNOW	OTHER FRZG PCPN	MAIL	PCPN AT CB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLDG BLDG	DUST SNOW	NO SIG MEA
N	.5	.5	.0	.0	.0	.0	.0	1.1	1.1	.5	27.9	.5	.4	.5	68.5	
NE	5.0	.7	.7	.0	.0	.0	.0	7.5	3.7	.7	31.7	.7	.0	.0	56.3	
E	4.7	.0	7.3	.0	.0	.0	.0	11.7	1.8	.0	15.8	.0	.0	.0	70.8	
SE	7.3	.0	.0	.0	.0	.0	.0	7.3	.6	2.4	7.3	.0	.0	.0	82.3	
S	1.7	.0	.0	.0	.0	.0	.0	1.7	2.9	.0	19.7	.0	.0	.0	84.7	
SW	.6	.9	.0	.0	.0	.0	.0	1.6	.2	.6	4.1	.0	1.3	.0	92.9	
W	1.1	1.0	.0	.0	.0	.0	.0	2.7	.0	.0	6.4	.0	.0	.0	91.0	
NW	2.5	.0	.0	.0	.0	.0	.0	2.5	.0	.0	3.4	.0	.0	.0	93.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	.0	.0	.0	.0	.0	.0	2.4	.0	.0	28.6	.0	.0	.0	69.0	
TOT PCT	2.4	.6	.3	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1	
TOT OBS:	843															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SNOW	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT CB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	2.0	.5	.5	.0	.0	.0	.0	3.0	.5	.5	22.6	.0	.0	.0	73.4
0600	2.6	1.1	1.6	.0	.0	.0	.0	5.3	1.1	1.1	13.7	.5	.0	.0	78.9
1200	1.6	.4	.0	.0	.0	.0	.0	2.0	1.6	.4	17.5	.0	.0	.4	78.5
1800	3.3	.5	.0	.0	.0	.0	.0	3.8	1.4	.0	11.8	.0	1.4	.0	81.5
TOT 851	2.4	.6	.5	.0	.0	.0	.0	3.4	1.2	.5	16.5	.1	.4	.1	78.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)									
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21		
N	.6	6.2	7.9	1.3	.7	.0		15.9	12.7		17.1	9.1	21.7	12.4	18.8	12.7	22.5	13.4		
NE	.4	6.9	4.2	.7	.2	.0		12.5	11.5		11.4	11.5	18.8	8.1	15.2	11.7	14.9	9.0		
E	.3	3.1	1.8	.5	.2	.1		6.2	11.8		6.6	7.9	3.9	5.6	4.8	7.4	3.1	9.6		
SE	1.3	4.6	3.9	1.5	.2	.0		11.5	12.2		13.2	15.8	4.1	15.8	6.4	12.8	4.4	15.6		
S	.9	3.7	4.2	1.8	.3	.1		10.8	13.8		9.5	12.5	4.5	13.1	9.6	14.0	7.9	13.5		
SW	1.1	5.5	6.6	1.8	.7	.1		15.8	14.0		19.5	14.7	17.7	14.0	15.0	12.3	22.4	12.4		
W	.6	4.8	4.5	.4	.0	.0		10.3	11.0		8.9	11.7	14.3	10.3	11.6	8.9	3.6	9.2		
NW	.5	6.0	4.9	1.2	.4	.1		14.0	13.1		10.4	14.6	8.8	19.0	14.5	18.5	9.7	14.2		
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.0							3.0	.0		3.5	2.2	6.3	1.8	2.0	1.7	6.0	3.1		
TOT OBS	209	966	912	220	50	8	2365		12.3		425	226	191	224	451	420	199	229		
TOT PCT	8.8	40.8	38.6	9.3	2.1	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-14	17-27	28-40	41+					00	03	06	09	12
N	3.6	7.9	3.9	.5	.0		15.9	12.7		14.3	16.7	15.8	17.6	
NE	2.8	7.4	2.0	.1	.1		12.5	11.5		11.4	13.1	13.5	11.4	
E	2.1	2.9	.8	.2	.2		6.2	11.8		7.0	4.8	6.1	6.6	
SE	3.5	4.9	2.4	.6	.1		11.5	12.2		14.1	10.4	10.5	10.5	
S	2.5	4.5	3.0	.5	.2		10.8	13.8		10.5	9.1	11.8	10.0	
SW	3.7	7.2	3.5	1.2	.3		15.8	14.0		17.9	15.7	13.7	17.1	
W	2.8	5.4	2.0	.2	.0		10.3	11.0		9.9	12.1	10.3	9.3	
NW	2.5	7.4	2.9	.7	.2		14.0	13.1		11.8	14.3	16.4	12.1	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	3.0						3.0	.0		3.1	3.9	1.8	4.4	
TOT OBS	632	1125	482	97	29	2365		12.3		651	415	871	428	
TOT PCT	26.7	47.6	20.4	4.1	1.2		100.0			100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1908-1975
(OVER-ALL) 1868-1975

AREA 0013 BAHIA BLANCA
39.05 57.14

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	9.4	4.0	.8	.3	.5	.5	.2	.3	.0	1.3	13.6	
	TOT %	9.7	4.3	.9	.6	.5	.5	.2	.3	.0	1.3	14.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4	
1<2	PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.4	.0	.0	.1	.0	.0	.0	.0	.0	.6	
2<5	PCP	.0	.4	.2	.0	.1	.2	.1	.0	.0	.1	1.1	
	NO PCP	1.5	1.0	.0	.0	.1	1.0	.3	.1	.0	.1	4.1	
	TOT %	1.5	1.3	.2	.0	.2	1.1	.4	.1	.0	.2	5.2	
5<10	PCP	.1	.1	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
	NO PCP	9.3	2.8	1.0	1.7	2.1	4.9	2.3	2.5	.0	.5	23.2	
	TOT %	9.4	2.9	1.2	1.9	2.1	5.1	2.4	2.6	.0	.5	24.1	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	NO PCP	9.9	6.4	2.5	2.3	3.9	12.3	8.1	6.6	.0	3.0	59.0	
	TOT %	9.9	6.5	2.5	2.3	3.9	12.3	8.1	6.7	.0	3.0	59.2	
TOT OBS													829
TOT PCT		22.4	15.3	4.9	4.8	7.0	19.1	11.3	9.7	.0	5.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.0	.1	.0	.0	.0	.0	.1	.0	1.2	1.7	
	4-10	1.4	2.3	.5	.3	.5	.4	.2	.2	.0		5.8	
	11-21	2.6	1.2	.2	.3	.1	.0	.0	.1	.0		4.6	
	22+	.9	.4	.0	.0	.0	.0	.0	.0	.0		1.3	
	TOT %	5.3	4.0	.9	.6	.6	.5	.2	.3	.0	1.2	13.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0		.2	
	22+	.0	.2	.1	.0	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.2	.1	.0	.0	.1	.2	.0	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.0	.1	.1	.0	.0	.0		.6	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.0	.2	.1	.0	.0	.0	.0	.0	.0		.3	
	TOT %	.2	.5	.1	.0	.1	.1	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.6	.1	.0	.0	.1	.1	.1	.0		1.3	
	11-21	.9	.7	.1	.0	.2	.7	.3	.0	.0		3.0	
	22+	.1	.2	.2	.0	.0	.2	.0	.0	.0		.7	
	TOT %	1.3	1.5	.4	.0	.2	1.0	.4	.1	.0	.2	5.2	
5<10	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.9	
	4-10	1.9	1.2	.5	.8	.7	1.5	1.1	1.3	.0		8.8	
	11-21	2.9	1.3	.5	.8	.8	2.7	1.0	1.5	.0		11.5	
	22+	.2	.5	.4	.2	.6	.4	.1	.0	.0		2.3	
	TOT %	5.0	2.9	1.3	2.1	2.0	4.6	2.2	2.7	.0	.4	13.3	
10+	0-3	.1	.1	.4	.2	.1	.5	.0	.2	.0	2.9	4.4	
	4-10	4.5	4.1	1.4	1.5	1.5	4.5	4.0	4.8	.0		26.3	
	11-21	4.6	2.3	.8	1.2	2.1	9.8	4.4	2.2	.0		23.3	
	22+	.2	.4	.0	.3	.2	1.0	.0	.1	.0		2.3	
	TOT %	9.4	6.9	2.5	3.3	3.9	11.8	8.4	7.3	.0	2.9	56.4	
TOT OBS													908
TOT PCT		21.3	15.9	5.2	6.0	6.8	18.1	11.4	10.4	.0	4.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1958-1975
(OVER-ALL) 1899-1975

AREA 0013 BAHIA BLANCA
39.85 57.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	27.3	.0	2.2	.7	4.3	5.0	.7	.7	2.9	1.4	45.3	54.7	139
0600	17.3	.7	1.4	2.2	7.2	7.2	.0	.1	.7	2.2	39.6	60.4	139
1200	17.8	.0	.0	1.4	8.9	10.3	.0	.0	1.9	.9	41.1	58.9	214
1800	11.5	.0	1.0	2.6	5.2	15.2	1.0	.0	.0	2.6	39.3	60.7	191
TOT	172	1	7	12	45	68	3	2	9	12	281	402	683
PCT	17.9	.1	1.0	1.8	6.6	10.0	.4	.3	1.3	1.8	41.1	58.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	17.5	.9	1.4	5.5	35.9	38.7	217
0600	11.8	1.0	1.5	7.4	28.9	49.5	204
1200	13.7	.4	.4	3.7	14.4	67.4	270
1800	10.2	.4	.9	4.4	17.3	66.7	225
TOT	122	6	9	47	215	517	916
PCT	13.3	.7	1.0	5.1	23.5	56.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
0000	32.2	35.6	99.0	13.6	47.5	118
0600	18.8	21.1	30.5	17.2	52.3	128
1200	16.9	18.8	21.7	21.3	57.0	207
1800	11.3	13.4	19.9	20.4	59.7	186
TOT	118	133	167	120	352	639
PCT	18.5	20.8	26.1	18.8	55.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.3	.0	.0	.0	.0	1	.3
60/64	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
55/59	.0	.3	.0	.9	1.7	.7	2.6	1.0	20	6.6
50/54	.0	.0	.0	.3	1.7	4.6	10.9	7.6	76	25.2
45/49	.0	.0	.0	.3	3.3	8.6	19.2	19.5	154	51.0
40/44	.0	.0	.0	.0	1.0	3.0	4.6	7.6	49	16.2
TOTAL	0	1	0	4	23	31	115	108	302	100.0
PCT	.0	.3	.0	1.3	7.6	16.9	38.1	35.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
.0	.3	.0	.0	.3	.0	.0	.0	.0	.0
1.2	1.3	.5	.8	.0	.3	.7	1.8	.0	.0
5.0	3.7	4.6	1.3	1.5	2.6	3.5	2.6	.0	.3
7.6	4.7	3.2	3.1	7.9	7.9	7.0	7.0	.0	2.6
.7	.5	2.2	1.3	4.5	4.2	1.5	1.3	.0	.0
14.6	10.9	10.4	6.5	14.2	15.1	12.6	12.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	59	58	54	47	42	38	34	47.0	851
0600	58	55	52	46	42	40	38	46.8	419
1200	64	60	56	48	43	41	37	48.7	851
1800	68	61	57	50	43	41	39	49.8	412
TOT	68	59	55	48	42	39	34	48.1	2393

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	1.4	8.2	12.3	35.6	42.5	86	73		
0600	.0	.0	4.4	17.6	41.9	35.1	86	74		
1200	.0	1.2	9.6	16.9	34.9	37.3	85	83		
1800	.0	3.9	6.5	20.8	41.6	27.3	83	77		
TOT	0	5	23	52	118	109	85	307		

SEPTEMBER

PERIOD: (PRIMARY) 1908-1975
(OVER-ALL) 1868-1975

AREA 0013 BAHIA BLANCA
39.85 57.14

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

ATR-SEA	33	37	41	45	49	53	57	61	TOT	N	NO
TMP DIF	38	40	44	48	52	56	60	64		FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.2	.4	1.0	.1	14	.0	1.7
9/10	.0	.0	.0	.0	.2	1.9	.5	.0	22	.2	2.4
7/8	.0	.0	.0	.2	1.7	3.6	1.0	.0	54	.8	5.6
6	.0	.0	.0	.1	2.8	1.3	.0	.0	35	1.4	2.8
5	.0	.0	.0	.6	6.2	.7	.2	.0	65	2.0	5.7
4	.0	.0	.0	4.5	4.7	.5	.0	.0	81	2.0	7.7
3	.0	.0	.0	4.2	5.9	.4	.0	.0	71	2.4	6.1
2	.0	.0	.6	9.7	1.9	.6	.0	.0	107	2.0	10.8
1	.0	.0	.5	10.8	1.8	.2	.0	.0	111	2.3	11.0
0	.0	.0	.6	9.7	1.8	.4	.0	.0	104	1.2	11.2
-1	.0	.0	1.4	2.9	1.7	.0	.0	.0	50	1.0	5.0
-2	.0	.0	1.6	3.5	1.1	.1	.0	.0	52	.4	5.9
-3	.0	.0	1.1	.8	.5	.1	.0	.0	21	.2	2.3
-4	.0	.0	1.1	.6	.0	.0	.0	.0	14	.4	1.3
-5	.0	.0	.2	.6	.1	.0	.0	.0	8	.0	1.0
-6	.0	.0	.2	.2	.0	.0	.0	.0	4	.1	.4
-7/-8	.0	.5	.6	.0	.1	.0	.0	.0	10	.1	1.1
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.2
-11/-13	.6	.1	.1	.0	.0	.0	.0	.0	7	.0	.8
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	5	7	67	406	85	23	3	836	139	697	
PCT	.6	.8	8.0	48.6	28.7	10.2	2.8	.4	100.0	16.6	83.4

PERIOD: (OVER-ALL) 1968-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	M						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.9	.2	.0	.0	.0	1.3	.2	.5	.0	.0	.0	.0	.7
1-2	.0	2.2	1.3	.0	.0	.0	4.5	.0	5.0	.8	.0	.0	.0	5.7
3-4	.0	2.6	3.6	.0	.0	.0	6.2	.0	1.7	2.2	.0	.0	.0	4.0
5-6	.0	.2	.7	.2	.0	.0	4.1	.0	.2	2.5	.3	.0	.0	2.9
7	.0	.0	2.1	.3	.0	.0	2.4	.0	.0	1.6	.7	.2	.0	2.6
8-9	.0	.2	.6	.4	.0	.0	1.2	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.1	.4	.4	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.4	11.3	.8	.0	.0	19.9	.2	7.4	7.6	1.7	.2	.0	17.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	.4	.5	1.0	.0	.0	.0	.0	1.5
1-2	.3	1.1	.0	.0	.0	.0	1.4	.1	.5	.3	.0	.0	.0	.8
3-4	.0	.2	.2	.0	.0	.0	.4	.0	.1	.6	.0	.0	.0	.7
5-6	.0	.2	.8	.4	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	1.3	1.2	.6	.0	.0	4.0	.5	1.6	1.5	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1975

SEPTEMBER

AREA 0013 BAHIA BLANCA
39.05 57.1W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.4	.6	1.3	.0	.0	.0	.0		1.9
1-2	.0	.7	1.3	.0	.0	.0		2.0	.0	2.7	.8	.0	.0	.0		3.5
3-4	.0	.7	1.0	.0	.0	.0		1.7	.0	1.8	4.3	.0	.0	.0		6.3
5-6	.0	.0	.5	.2	.0	.0		.7	.0	.2	3.1	.3	.0	.0		3.6
7	.0	.0	.4	.2	.0	.0		.5	.0	.0	1.1	.5	.2	.0		1.8
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.0	.8	.2	.0		2.1
10-11	.0	.0	.0	.9	.0	.0		.9	.0	.0	.2	.7	.2	.0		1.1
12	.0	.0	.2	.0	.0	.0		.2	.0	.0	.1	.2	.0	.0		.3
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	1.7	3.3	1.3	.0	.0		6.3	.6	6.1	10.8	2.3	.6	.0		20.6

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.6	1.0	.0	.0	.0		.6	.2	.9	.1	.0	.0	.0		1.1	
1-2	.0	2.7	1.0	.0	.0	.0		3.7	.0	2.3	.8	.0	.0	.0		3.1	
3-4	.0	1.2	2.7	.0	.0	.0		3.9	.0	1.4	1.6	.0	.0	.0		3.0	
5-6	.0	.4	2.6	.0	.0	.0		2.9	.0	.1	.6	.0	.0	.0		.8	
7	.0	.0	.5	.0	.0	.0		.5	.0	.2	.4	.0	.0	.0		.6	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0		.2	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	4.9	6.7	.0	.0	.0		11.5	.2	4.9	3.7	.0	.0	.0		8.7	92.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.2	5.8	.2	.0	.0	.0	16.2	
1-2	.6	18.0	6.2	.0	.0	.0	24.9	
3-4	.0	9.3	16.4	.0	.0	.0	25.9	
5-6	.0	1.2	14.1	1.2	.0	.0	16.6	
7	.0	.2	6.4	1.9	.4	.0	8.9	
8-9	.0	.2	1.9	1.3	.2	.0	3.7	
10-11	.0	.2	.8	2.3	.2	.0	3.3	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.8	35.3	46.1	7.1	.8	.0	100.0	482

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	0.1	13.5	7.8	2.2	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
6-7	.0	1.0	2.7	5.2	3.5	2.4	1.7	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	.2	1.9	1.5	.8	.3	1.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
10-11	.0	.8	.8	.8	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
12-13	.0	.0	1.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
13	.0	.0	.0	1.0	.8	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	7
INDET	6.8	9.6	7.4	4.9	4.1	1.4	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	213	3
TOTAL	48	117	162	127	70	29	29	2	0	0	1	0	0	0	0	0	0	0	0	592	4
PCT	8.1	19.8	27.4	21.5	11.8	4.7	4.9	1.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975APEA 0013 BAHIA BLANCA
39.75 57.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	1.9	2.5	3.1	.0	.0	.0	.0	6.6	1.6	.0	10.1	1.3	1.6	.0	78.9
NE	.3	.5	.3	.0	.0	.0	.0	.8	1.8	2.0	8.9	.0	.8	.0	85.7
E	14.5	7.4	.9	.0	.0	.0	.0	22.8	4.3	.9	8.2	.0	1.5	.0	53.1
SE	1.4	2.2	1.1	.0	.0	.0	.0	4.6	3.8	.0	5.2	.0	1.1	.0	85.2
S	2.3	2.6	1.3	.0	.0	.0	.0	6.2	7.5	1.3	2.2	.0	1.3	.0	81.4
SW	2.8	1.3	.0	.0	.0	.0	.0	4.1	.3	1.3	12.2	.0	2.5	.0	79.7
W	.0	4.2	2.1	.0	.0	.0	.0	6.3	4.2	.0	13.7	.0	.0	.0	75.8
NW	2.9	.0	.6	.0	.0	.0	.0	3.4	3.4	2.3	16.4	.0	.6	.0	71.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	85.7
TOT PCT TOT OBS:	3.9 646	2.8	1.1	.0	.0	.0	.0	7.6	3.3	.9	8.8	.5	1.2	.0	77.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	2.8	2.1	.7	.0	.0	.0	.0	5.7	3.5	1.4	9.9	.7	.7	.0	78.0
0600	2.0	2.0	2.0	.0	.0	.0	.0	6.1	2.7	2.0	13.5	.7	.7	.0	75.0
1200	5.2	2.9	1.2	.0	.0	.0	.0	8.7	4.1	.0	8.7	.0	1.7	.0	76.7
1800	4.6	4.1	.5	.0	.0	.0	.0	9.2	3.1	.5	5.1	.5	1.5	.0	80.0
TOT PCT OBS:	3.8	2.9	1.1	.0	.0	.0	.0	7.6	3.4	.9	9.0	.5	1.2	.0	77.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	5.5	6.0	1.1	.1	.0		13.7	11.9		15.3	17.0	13.3	17.5	10.7	12.8	9.5	15.0
NE	.9	4.3	5.2	.9	.0	.0		11.4	12.1		14.9	9.5	12.6	7.3	11.0	10.5	16.3	8.8
E	.6	3.8	4.3	1.0	.4	.0		10.3	13.1		12.2	6.3	15.4	4.4	11.6	8.9	16.9	8.6
SE	.7	5.3	4.3	1.0	.0	.0		11.4	11.9		9.7	9.7	15.1	11.4	11.6	10.0	17.5	10.2
S	.8	4.8	5.2	1.8	.7	.0		13.3	14.1		13.8	15.8	14.1	13.2	12.8	11.5	9.9	16.7
SW	1.3	5.0	4.1	2.2	1.3	.0		12.8	15.1		15.3	15.0	12.4	14.1	15.3	13.8	11.0	14.0
W	.5	4.5	3.7	.8	.4	.0		9.2	12.4		7.1	9.0	4.9	10.3	9.7	11.2	9.6	9.8
NW	.8	5.4	5.5	1.3	.1	.0		13.1	12.1		9.9	13.3	8.2	16.4	13.6	17.2	7.5	14.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		3.7	4.4	4.0	5.4	3.5	4.0	1.7	2.8
TOT OBS	222	805	791	207	63	0	2088		12.4		332	206	149	223	367	396	179	216
TOT PCT	10.6	38.6	37.9	9.9	3.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	3.2	7.4	2.8	.2	.1		13.7	11.9	15.9	15.8	11.8	12.5
NE	2.7	5.3	2.9	.3	.0		11.4	12.1	12.9	9.4	10.8	12.2
E	2.6	5.1	1.8	.6	.1		10.3	13.1	10.0	8.8	10.2	12.3
SE	3.0	5.3	2.8	.2	.0		11.4	11.9	9.7	12.9	10.8	13.5
S	3.5	5.0	3.6	1.1	.1		13.3	14.1	14.6	13.6	12.1	13.6
SW	3.5	5.1	2.8	2.0	.4		13.8	15.1	13.9	13.4	14.5	12.7
W	2.3	4.7	1.5	.6	.1		9.2	12.4	7.8	8.1	10.5	9.7
NW	3.5	6.5	3.0	.3	.1		13.1	12.1	11.2	13.1	15.3	11.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	3.9	4.6	3.8	2.3
TOT OBS	589	930	444	113	18	2088		12.4	358	372	393	395
TOT PCT	27.9	44.5	21.3	5.4	.9		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975

OCTOBER

AREA 0013 SANIA BLANCA
39.7S 57.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0603	3.9	8.2	39.8	35.5	9.5	3.0	.0	12.0	100.0	558
0609	4.8	5.4	34.4	35.5	12.6	3.2	.0	13.1	100.0	372
1215	3.8	7.3	40.6	35.8	9.0	3.4	.0	12.2	100.0	763
1821	2.3	5.6	36.7	43.8	9.6	2.0	.0	12.8	100.0	395
TOT	78	144	805	791	207	63	0	12.4		2088
PCT	3.7	6.9	38.6	37.9	9.9	3.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	3.6	2.6	2.8	2.6		4.3
NE	4.4	1.1	3.8	6.8		5.3
E	2.6	.9	4.6	9.8		6.3
SE	1.5	1.2	6.3	5.5		6.2
S	1.6	1.6	4.1	2.5		5.5
SW	3.6	1.8	3.1	4.6		5.0
W	2.8	2.6	1.3	1.6		4.2
NH	2.3	1.1	1.3	2.1		4.6
VAR	.0	.0	.0	.0		.0
CALM	.2	.4	.9	.0		4.5
TOT OBS	105	62	132	165	464	5.5
TOT PCT	22.6	13.4	28.4	35.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

W.D. DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
							149	299	599	999	1999	3499	4999	6499	7999			
N	3.6	2.6	2.8	2.6		4.3	.3	.0	.0	.5	1.6	1.1	.2	.2	.6	.2	7.1	
NE	4.4	1.1	3.8	6.8		5.3	1.6	.0	.2	.0	3.1	3.0	.5	.1	.7	.2	6.7	
E	2.6	.9	4.8	9.8		6.3	1.6	.0	.0	2.1	5.3	3.7	1.0	.4	.0	.2	3.8	
SE	1.5	1.2	6.3	5.5		6.2	1.1	.0	.0	1.2	3.7	3.7	.6	.4	.0	.0	3.8	
S	1.6	1.6	4.1	2.5		5.5	.4	.0	.0	.4	3.2	1.6	.5	.0	.0	.2	3.5	
SW	3.6	1.8	3.1	4.6		5.0	2.7	.0	.0	.0	2.2	1.2	.8	.0	.0	.0	6.4	
W	2.8	2.6	1.3	1.6		4.2	.6	.0	.0	.2	.6	.6	.0	.0	.0	.2	6.1	
NH	2.3	1.1	1.3	2.1		4.6	.8	.0	.0	.4	.8	.4	.2	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.4	.9	.0		4.5	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.9	
TOT OBS	105	62	152	145	464	2.9	42	0	1	22	96	72	18	5	6	5	197	464
TOT PCT	22.6	13.4	28.4	35.6	100.0		9.1	.0	.2	4.7	20.7	15.5	3.9	1.1	1.3	1.1	42.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>5000	2.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>3500	4.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
>2000	9.8	18.3	21.0	21.6	21.6	21.6	21.6	21.6
>1000	16.2	35.2	40.6	41.9	42.4	42.4	42.4	42.6
>600	16.8	37.6	44.8	46.1	46.9	46.9	47.2	47.2
>300	16.8	37.6	45.0	46.3	47.2	47.2	47.4	47.4
>150	16.8	37.6	45.0	46.3	47.2	47.2	47.4	47.4
>0	16.8	37.6	47.8	49.1	50.7	52.2	55.9	56.3
TOTAL	77	172	219	225	232	239	256	258

TOTAL NUMBER OF OBS: 458

PCT FREQ NH <5/8: 43.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS) -

	0	1	2	3	4	5	6	7	8	TOTAL OBS
	12.9	8.6	8.8	7.4	5.0	4.0	7.4	13.9	23.7	8.4
										502

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1907-1975AREA 0013 BAHIA BLANCA
39.75 57.3W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	W FOG
14/16	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	.0	1.1	.3	.2	.0	10	.2	1.4
9/10	.0	.0	.0	.0	.0	.5	1.7	.5	.0	.2	18	.0	2.9
7/8	.0	.0	.0	.0	.6	1.3	1.3	1.0	.0	.0	26	.3	3.8
4	.0	.0	.0	.2	.2	1.0	.3	.2	.0	.0	11	.3	1.4
5	.0	.0	.0	.2	2.2	2.4	1.1	.0	.0	.0	37	.5	5.4
4	.0	.0	.0	.2	3.3	3.2	.6	.2	.0	.0	47	1.0	6.5
3	.0	.0	.0	.0	4.4	1.3	.6	.0	.0	.0	40	1.4	4.9
2	.0	.0	.0	2.5	6.0	2.4	.5	.0	.0	.0	72	1.1	10.3
1	.0	.0	.2	1.9	4.8	2.1	.3	.0	.0	.0	58	.3	8.9
0	.0	.0	.4	5.5	4.8	1.6	.0	.2	.0	.0	78	1.3	11.1
-1	.0	.0	1.0	3.2	2.4	.6	.2	.0	.0	.0	46	.3	7.0
-2	.0	.0	.2	8.6	2.5	.6	.0	.0	.0	.0	75	1.1	10.8
-3	.0	.0	.5	2.7	1.0	.2	.0	.0	.0	.0	27	.3	4.0
-4	.0	.0	.3	2.4	1.1	.2	.2	.0	.0	.0	26	.6	3.5
-5	.0	.0	1.0	1.0	.3	.0	.0	.0	.0	.0	14	.2	2.1
-6	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	8	.0	1.3
-7/-8	.0	.0	1.1	1.9	.0	.0	.2	.0	.0	.0	20	.2	3.0
-9/-10	.0	.6	.3	.0	.0	.2	.0	.0	.0	.0	7	.2	1.0
-11/-13	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
-14/-16	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	7	.7	1.0
TOTAL	4		37		212		51		1		631	59	372
PCT	.6	1.3	5.1	31.2	33.6	17.4	8.1	2.4	.2	.2	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.9	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.5	1.4	.0	.0	.0	2.8	.3	2.7	.5	.0	.0	.0	3.5
3-4	.0	.6	2.3	.9	.0	.0	4.0	.0	1.0	3.8	.1	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.3	.3	.0	.0	.0	.6	.0	.0	3.2	.8	.0	.0	4.0
8-9	.0	.0	.0	.2	.0	.0	.9	.0	.0	.8	.8	.0	.0	1.3
10-11	.0	.0	.2	.3	.0	.0	.9	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.0	1.3	.0	.0	9.8	.6	3.7	9.8	1.9	.0	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.3	2.9	.6	.0	.0	.0	3.9
3-4	.0	.8	1.3	.0	.0	.0	3.3	.0	.9	1.0	.0	.0	.0	1.9
5-6	.0	.2	4.0	.0	.0	.0	4.3	.0	.1	2.2	.1	.0	.0	2.3
7	.0	.0	2.4	1.1	.0	.0	3.5	.0	.0	3.4	1.3	.0	.0	4.7
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	1.0	.0	.0	2.3
10-11	.0	.0	.0	.6	.6	.0	1.2	.0	.0	1.0	.1	.0	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.6	2.0	1.0	.0	10.9	.3	5.5	9.9	2.4	.0	.0	17.7

OCTOBER

PERIOD: (PRIMARY) 1967-1975
(OVER-ALL) 1967-1975

TABLE 17

APEA 0013 SANIA BLANCA
39.75 57.5WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	1.1	.3	.2	.0	.0	10	.2	1.4
9/10	.0	.0	.0	.0	.0	.5	1.7	.5	.0	.2	18	.6	2.9
7/8	.0	.0	.0	.0	.6	1.3	1.3	1.0	.0	.0	26	.3	3.8
5	.0	.0	.0	.2	.2	1.0	.3	.2	.0	.0	11	.3	1.4
4	.0	.0	.0	.2	2.2	2.4	1.1	.0	.0	.0	37	.5	5.4
3	.0	.0	.0	.2	3.3	3.2	.6	.2	.0	.0	47	1.0	6.5
2	.0	.0	.0	.0	4.4	1.3	.6	.0	.0	.0	40	1.4	4.9
1	.0	.0	.0	2.5	8.0	2.4	.5	.0	.0	.0	72	1.1	10.3
0	.0	.0	.2	1.9	4.8	2.1	.3	.0	.0	.0	58	.3	8.9
-1	.0	.0	.4	5.5	4.8	1.6	.0	.2	.0	.0	78	1.3	11.1
-2	.0	.0	1.0	3.2	2.4	.6	.2	.0	.0	.0	46	.3	7.0
-3	.0	.0	.2	8.6	2.5	.6	.0	.0	.0	.0	75	1.1	10.8
-4	.0	.0	.5	2.7	1.0	.2	.0	.0	.0	.0	27	.3	4.0
-5	.0	.0	.3	2.4	1.1	.2	.2	.0	.0	.0	26	.6	3.5
-6	.0	.0	1.0	1.0	.3	.0	.0	.0	.0	.0	14	.2	2.1
-7/-8	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	8	.0	1.3
-9/-10	.0	.0	1.1	1.9	.0	.0	.2	.0	.0	.0	20	.2	3.0
-11/-13	.0	.6	.3	.0	.0	.2	.0	.0	.0	.0	7	.2	1.0
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	7	.7	1.0
PCT	.4	1.3	5.1	31.2	33.6	17.4	8.1	2.4	.2	.2	631	9.4	90.6

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.3	1.4	.0	.0	.0	2.8	.3	2.7	.5	.0	.0	.0	3.5
3-4	.0	.6	2.3	.9	.0	.0	4.0	.0	1.0	3.8	.1	.0	.0	4.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.3	.3	.0	.0	.0	.6	.0	.0	3.2	.8	.0	.0	4.0
8-9	.0	.0	.6	.3	.0	.0	.9	.0	.0	.6	.6	.0	.0	1.3
10-11	.0	.0	.2	.3	.0	.0	.6	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.0	1.5	.0	.0	9.8	.6	3.7	9.8	1.9	.0	.0	16.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.3	2.9	.6	.0	.0	.0	3.9
3-4	.0	.6	1.3	.0	.0	.0	3.3	.0	.9	1.0	.0	.0	.0	1.9
5-6	.0	.2	4.0	.0	.0	.0	4.3	.0	.1	2.2	.1	.0	.0	2.3
7	.0	.0	2.4	1.1	.0	.0	3.5	.0	.0	3.4	1.3	.0	.0	4.7
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.3	1.0	.0	.0	2.3
10-11	.0	.0	.0	.6	.6	.0	1.2	.0	.0	1.0	.1	.0	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.6	2.0	1.0	.0	16.9	.3	3.5	9.3	2.4	.0	.0	17.7

OCTOBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1867-1975AREA 0013 BAHIA BLANCA
39.75 57.54

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH) >4/8: AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	9.9	.0	.0	3.3	16.7	13.2	2.2	.0	2.2	3.3	52.7	47.3	91
06009	16.3	.0	.0	3.3	15.2	12.0	.0	1.1	.0	1.1	48.9	51.1	92
12015	9.6	.0	.7	7.4	25.0	11.8	5.9	.7	.7	.0	61.8	38.2	136
18021	3.1	.0	.0	3.7	19.6	20.2	4.9	1.8	1.8	.6	55.9	44.2	163
TOT	42	0	1	22	97	72	18	5	6	5	268	214	482
PCT	8.7	.0	.2	4.6	20.1	14.9	3.7	1.0	1.2	1.0	55.6	44.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	3.0	3.0	1.8	12.4	31.4	48.5	169
06009	8.7	1.2	.6	8.1	35.4	46.0	161
12015	5.0	2.0	2.5	8.5	39.3	48.8	201
18021	3.3	.9	1.4	10.8	31.0	52.6	213
TOT	36	13	12	74	243	366	744
PCT	4.8	1.7	1.6	9.9	32.7	49.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH) >4/8: BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00003	10.5	11.6	25.6	29.1	45.3	86
06009	17.1	18.3	25.6	24.4	50.0	82
12015	9.8	11.4	23.5	38.6	37.9	132
18021	3.2	5.1	17.1	41.1	41.8	158
TOT	41	48	101	161	196	458
PCT	9.0	10.5	22.1	35.2	42.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
60/64	.0	.0	.0	.7	1.1	1.3	2.2	.0	15	5.3
55/59	.0	.0	.0	.0	1.1	7.3	7.6	4.4	56	20.4
50/54	.0	.0	.0	.0	1.8	4.0	18.2	13.1	102	37.1
45/49	.0	.0	.0	.4	1.8	6.2	7.6	13.1	80	29.1
40/44	.0	.0	.0	.4	2.2	1.1	2.9	1.1	21	7.6
TOTAL	0	0	0	4	22	36	106	87	275	100.0
PCT	.0	.0	.0	1.5	8.0	20.4	38.5	31.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
1.8	.5	.7	.4	.0	.1	.6	1.3	.0	.0
5.9	4.4	1.5	.4	2.0	1.6	2.4	2.2	.0	.0
8.3	5.2	6.3	1.5	3.3	4.3	4.4	4.0	.0	.0
3.5	1.6	5.8	3.7	5.5	5.8	2.4	.8	.0	.0
.8	1.0	.0	.4	3.3	2.2	.0	.0	.0	.0
20.3	13.1	14.4	6.3	14.0	14.0	9.7	8.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	64	62	58	50	44	41	34	50.1	552
06009	66	59	57	49	43	39	34	49.1	371
12015	69	65	61	51	45	41	34	51.8	746
18021	69	64	61	52	45	41	34	52.3	382
TOT	69	64	59	50	44	41	34	51.0	2051

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	.0	10.1	17.4	37.7	34.8	85	69
06009	.0	.0	9.4	14.1	40.6	35.9	85	64
12015	.0	1.3	4.0	32.0	34.7	28.0	83	75
18021	.0	4.1	9.6	16.4	38.4	31.5	83	75
TOT	0	4	23	57	106	91	84	261

PERIOD: (OVER-ALL) 1963-1975

OCTOBER

AREA 0013 BAHIA BLANCA
39.75 57.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.0	.0	.0	.0		.0	1.0	1.4	.3	.0	.0	.0		2.7
1-2	.3	.6	.0	.0	.0	.0		1.6	.1	.6	1.0	.0	.0	.0		1.7
3-4	.0	.2	1.9	.0	.0	.0		2.1	.0	.4	.7	.6	.0	.0		1.8
5-6	.0	.0	4.4	.2	.0	.0		4.6	.0	.0	1.9	.0	.0	.0		1.9
7	.0	.0	2.1	.0	.0	.0		2.1	.0	.0	.8	.0	.0	.0		.8
8-9	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	1.0	.6	.0		1.6
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.3	.0	.0	.0		.3
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.7	.3	.0		1.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.3	.0	.0		.3
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	1.5	9.3	.8	.0	.0		11.9	1.0	2.7	5.2	3.0	1.3	.0		12.8

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	1.0	.4	.0	.0	.0	.0		.4	1.4
1-2	.2	2.0	.6	.0	.0	.0		2.8	.0	.7	.1	.0	.0	.0		.8	.8
3-4	.0	1.2	.6	.0	.0	.0		1.8	.0	.6	.9	.0	.0	.0		1.5	1.5
5-6	.0	.0	.0	.3	.0	.0		.3	.0	.0	.3	.3	.0	.0		.6	.6
7	.0	.0	.3	.0	.3	.0		.6	.0	.0	.3	.3	.0	.0		.6	.6
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.3	.0	.0		.7	.7
10-11	.0	.0	.0	.3	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1	.1
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.2	3.2	1.5	.8	.3	.0		5.9	1.0	1.8	2.1	1.0	.0	.0		5.8	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	5.2	.3	.0	.0	.0	11.0	
1-2	1.3	12.3	5.8	.0	.0	.0	19.4	
3-4	.0	6.8	12.9	1.6	.0	.0	21.3	
5-6	.0	.3	14.2	1.0	.0	.0	15.5	
7	.0	.3	12.9	3.5	.3	.0	17.1	
8-9	.0	.0	3.5	3.5	.6	.0	7.7	
10-11	.0	.0	2.3	1.6	.6	.0	4.5	
12	.0	.0	.0	1.3	.3	.0	1.6	
13-16	.0	.0	.0	.3	1.0	.0	1.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.8	24.8	51.9	13.2	3.2	.0	100.0	310

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	7.3	9.0	7.1	4.4	2.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.3	1.7	6.4	5.9	8.8	4.4	2.0	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	122	6
8-9	.0	.0	1.2	2.0	3.4	1.5	2.2	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	7
10-11	.0	.0	.2	.7	2.4	1.2	.2	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	23	8
12-13	.0	.0	.2	.2	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
>13	.0	.0	.0	.0	2.0	2.2	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
INDET	3.2	2.0	2.7	2.9	1.7	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	4
TOTAL	22	45	81	85	95	39	25	6	6	2	3	0	0	0	0	0	0	0	0	409	5
PCT	5.4	11.0	19.8	20.8	23.2	9.5	6.1	1.5	1.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

AREA 0013 BAHIA BLANCA
39.95 57.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.8	1.3	.0	.0	.0	.0	.0	5.1	.0	4.8	9.7	.8	.6	.0	79.7
NE	5.8	1.1	.0	.0	.0	.0	.0	6.9	.7	2.2	12.7	.2	.0	.0	79.5
E	1.5	.0	2.0	.0	.0	.0	.0	3.5	3.0	4.5	18.6	1.5	3.5	.0	64.8
SE	3.6	.0	.0	.0	.0	.0	.0	3.8	.6	.6	8.9	.0	.6	.0	86.1
S	2.5	.0	.0	.0	.0	.0	.0	2.5	3.3	.0	4.1	.0	.0	.0	90.2
SW	2.2	4.4	1.5	.0	.0	.0	.0	8.0	1.5	1.3	4.7	.0	.0	.0	85.8
W	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	13.4	.0	.0	.0	84.3
NW	3.1	.0	.0	.0	.0	.0	.0	3.1	1.4	5.1	11.6	.0	.3	.0	82.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4	.0	.0	.0	.0	.0	.0	5.4	2.7	5.4	10.8	.0	2.7	.0	73.0
TOT PCT OBS:	3.6 610	1.0	.3	.0	.0	.0	.0	4.9	1.1	3.0	10.3	.3	.8	.0	80.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	4.4	.7	.0	.0	.0	.0	.0	5.2	.7	4.4	11.9	.0	.7	.0	79.3
0600Z	5.0	1.9	.6	.0	.0	.0	.0	7.5	1.3	8.3	8.1	.8	.8	.0	78.9
1200Z	1.9	.0	.6	.0	.0	.0	.0	2.5	2.5	.6	13.0	.8	.0	.0	80.7
1800Z	3.1	1.3	.0	.0	.0	.0	.0	4.4	.6	.6	8.1	.0	1.9	.0	85.0
TOT PCT TOT OBS:	3.6 610	1.0	.3	.0	.0	.0	.0	4.9	1.3	2.9	10.2	.3	.8	.0	80.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	6.8	7.1	1.6	.2	.0		16.7	12.4	14.2	14.1	22.2	16.9	18.9	15.8	18.1	14.1	
NE	.8	4.3	9.6	1.1	.2	.0		14.2	11.9	20.9	12.6	14.7	10.1	13.0	11.1	18.1	13.7	
E	.7	3.7	2.3	.2	.0	.0		7.0	9.6	6.7	6.5	9.1	5.0	5.4	8.1	6.5	7.7	
SE	1.4	4.4	3.1	.6	.1	.0		9.6	10.4	12.0	10.6	7.9	12.8	9.1	7.1	6.5	11.3	
S	.9	4.3	9.6	1.2	.4	.3		10.9	13.9	10.4	11.4	4.8	10.0	11.8	11.7	6.5	11.3	
SW	1.3	4.1	3.3	1.6	.6	.2		11.3	14.2	11.3	11.0	12.5	9.9	10.6	11.1	13.8	11.8	
W	1.0	4.5	2.8	.7	.1	.0		9.2	11.0	9.1	8.2	3.7	11.9	7.2	11.0	9.0	10.7	
NW	.9	7.1	6.7	2.4	.2	.0		17.3	13.0	11.0	21.8	14.8	20.9	19.9	21.3	11.4	14.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.8							3.8	.0	.0	1.8	8.6	2.7	4.0	2.7	4.6	3.1	
TOT OBS	233	888	741	702	40	12	2136		11.8	353	220	162	222	376	404	174	223	
TOT PCT	11.8	41.6	34.7	1.3	1.9	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.4	9.0	3.6	.6	.1		16.7	12.4	14.9	19.1	17.3	15.9	
NE	3.3	7.8	2.7	.4	.1		14.2	11.9	17.7	12.0	12.0	15.6	
E	2.3	3.9	.6	.0	.0		7.0	9.6	6.6	6.7	6.8	8.0	
SE	3.2	4.8	1.4	.3	.0		9.6	10.4	11.4	10.5	8.0	9.2	
S	2.9	4.6	2.3	.7	.4		10.9	13.9	10.8	7.7	11.7	12.5	
SW	3.0	4.7	2.2	1.1	.3		11.3	14.2	11.2	11.0	10.9	12.7	
W	2.9	4.3	1.7	.3	.0		9.2	11.0	8.8	9.3	9.2	9.5	
NW	3.1	9.1	4.4	.8	.4		17.3	13.0	15.1	18.4	20.7	12.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.8						3.8	.0	3.5	5.2	3.3	3.8	
TOT OBS	596	1029	402	90	19	2136		11.8	573	384	780	399	
TOT PCT	27.9	48.2	18.8	4.2	.9		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1907-1975
(SECONDARY) 1960-1975

NOVEMBER

AREA 0013 SANJA BLANCA
29.55 57.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEEDS (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.9	9.9	40.7	34.7	8.4	2.1	.7	11.6	100.0	573
0400Z	5.2	8.9	40.9	35.6	8.6	2.1	.6	11.7	100.0	584
1201Z	3.3	8.4	42.3	34.1	11.2	2.2	.3	12.3	100.0	780
1821Z	3.8	7.8	42.1	36.6	8.3	.8	.3	11.4	100.0	399
TOT	81	172	888	741	202	40	12	11.8		2134
PCT	3.8	8.1	41.6	34.7	9.5	1.9	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	8.7	5.7	5.1	3.1		3.6
NE	6.8	2.2	3.6	5.7		4.1
E	1.8	.2	1.6	4.1		3.7
SE	1.8	.4	2.3	1.4		3.0
S	6.0	.6	2.7	1.2		3.1
SW	5.0	1.8	3.6	.9		3.3
W	3.3	1.2	.9	1.3		3.1
NW	6.7	1.2	3.2	1.8		3.2
VAP	.8	.8	.0	.0		.0
CALM	2.7	.8	1.3	1.7		3.6
TOT OBS	381	57	116	100	474	3.8
TOT PCT	42.4	12.8	24.3	21.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.4	.0	.0	.2	1.3	1.4	.5	.4	.2	.4	14.2	
NE	1.2	.0	.1	1.3	1.6	2.2	.5	.2	.8	.2	10.1	
E	.8	.0	.3	.2	1.0	2.0	.4	.4	.0	.0	2.6	
SE	.3	.0	.0	.5	1.3	.4	.2	.1	.0	.0	3.2	
S	.0	.0	.0	.7	.6	.7	.4	.0	.2	.4	7.4	
SW	.2	.0	.0	.1	1.3	.9	.6	.2	.0	.4	7.4	
W	.4	.0	.0	.0	.4	.4	.3	.0	.0	.2	5.2	
NW	.6	.0	.0	.0	.3	1.8	.5	.5	.0	.2	9.1	
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.2	.4	1.3	.0	.0	.0	.0	3.8	
TOT OBS	27	8	2	13	42	53	14	8	5	9	209	474
TOT PCT	5.7	.0	.4	3.2	8.9	11.2	3.0	1.7	1.1	1.9	63.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> OR ≥10	> OR ≥5	> OR ≥2	> OR ≥1	> OR ≥1/2	> OR ≥1/4	> OR ≥30YD	> OR ≥0
> OR ≥0000	2.1	2.6	3.8	3.8	3.8	3.8	3.8	3.8
> OR ≥0000	2.8	4.3	4.7	4.7	4.7	4.7	4.7	4.7
> OR ≥0000	4.9	7.2	7.7	7.7	7.7	7.7	7.7	7.7
> OR ≥0000	11.2	17.2	18.1	18.1	18.1	18.1	18.1	18.1
> OR ≥0000	16.6	24.3	26.6	26.6	26.6	26.6	26.6	26.6
> OR ≥0000	18.1	28.2	29.4	29.6	29.8	30.0	30.0	30.0
> OR ≥0000	18.1	28.2	29.8	30.2	30.4	30.4	30.4	30.4
> OR ≥0000	18.1	28.2	29.8	30.2	30.4	30.4	30.4	30.4
> OR ≥0000	18.1	28.2	30.6	31.5	31.9	32.5	32.7	32.8
TOTAL	65	123	144	148	150	167	188	189

TOTAL NUMBER OF OBS: 470

PCT FREQ NM <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
38.6	9.3	5.4	5.4	4.0	5.0	5.4	8.0	13.1	5.4	497

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1960-1975

NOVEMBER

AREA 0013 BAHIA BLANCA
39.33 97.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.9	1.3	.7	.3	.2	.2	.3	.3	.0	.2	4.4	
	TOT %	.9	1.3	.7	.3	.2	.2	.3	.3	.0	.2	4.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.1	.3	.4	.1	.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.1	.3	.4	.1	.1	.3	.0	.0	.0	.0	1.4	
1<2	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.2	.2	.2	.0	.1	.0	.0	.3	1.0	
	TOT %	.1	.0	.3	.2	.2	.0	.1	.0	.0	.3	1.3	
2<3	PCP	.7	.3	.0	.2	.2	.0	.0	.0	.0	.3	2.0	
	NO PCP	1.1	2.1	1.0	.3	.0	.9	.3	.9	.0	.3	7.2	
	TOT %	1.8	2.4	1.0	.7	.2	.9	.3	.9	.0	.6	9.2	
3<10	PCP	.2	.3	.0	.0	.0	.2	.0	.2	.0	.0	1.0	
	NO PCP	3.8	3.8	1.6	1.3	1.3	2.0	.6	1.8	.0	1.1	16.4	
	TOT %	7.0	4.3	1.6	1.3	1.3	2.1	.6	1.9	.0	1.1	17.4	
10+	PCP	.1	.3	.2	.0	.0	.4	.1	.2	.0	.0	1.3	
	NO PCP	13.4	10.1	4.0	3.9	7.9	7.3	4.1	8.7	.0	3.6	64.9	
	TOT %	13.5	10.4	4.1	3.9	7.9	7.7	4.2	8.9	.0	3.6	66.2	
TOT OBS													
TOT PCT													
		21.9	19.0	8.2	6.5	10.0	11.2	5.3	12.0	.0	6.1	100.0	609

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.6	
	4-10	.3	.6	.6	.0	.1	.0	.3	.0	.0	.0	1.8	
	11-21	.3	.4	.0	.1	.0	.0	.0	.3	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.1	.6	.3	.1	.1	.3	.3	.0	.1	3.7	
1/2<1	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.3	.1	.1	.3	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	4-10	.1	.0	.2	.2	.1	.1	.0	.1	.0	.0	1.0	
	11-21	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.3	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.2	.3	.1	.1	.1	.2	.0	.0	1.9	
2<3	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.2	1.0	.3	.0	.0	.4	.1	.6	.0	.0	2.6	
	11-21	1.1	1.2	.7	.7	.3	.2	.2	.3	.0	.0	4.7	
	22+	.2	.2	.0	.2	.1	.1	.0	.1	.0	.0	1.0	
	TOT %	1.6	2.4	.9	1.0	.4	.8	1.0	1.0	.0	.0	9.2	
3<10	0-3	.2	.3	.1	.0	.0	.0	.0	.0	.0	1.0	1.3	
	4-10	1.3	2.0	.9	.7	.0	.7	.3	1.3	.0	.0	7.9	
	11-21	1.3	1.2	.0	.4	.6	.3	.3	.8	.0	.0	5.8	
	22+	.0	.3	.0	.2	.3	1.1	.1	.1	.0	.0	2.1	
	TOT %	2.9	3.7	1.3	1.4	1.6	2.3	.7	2.4	.0	1.0	17.2	
10+	0-3	.0	.2	.3	.4	.2	.6	.3	.4	.0	3.9	7.4	
	4-10	7.1	3.8	2.4	2.2	3.0	3.0	2.1	4.3	.0	.0	28.1	
	11-21	6.1	3.3	1.4	1.7	3.1	3.2	1.3	3.6	.0	.0	25.7	
	22+	1.1	.3	.1	.1	1.2	1.1	.3	.9	.0	.0	5.4	
	TOT %	15.2	9.6	4.3	4.4	7.4	8.1	4.2	9.4	.0	3.9	66.6	
TOT OBS													
TOT PCT													
		20.7	17.2	7.8	7.4	9.8	11.7	5.7	13.3	.0	6.3	100.0	725

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

AREA 0013 BAHIA BLANCA
39.55 57.24

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	8.1	.0	.0	2.0	10.1	15.2	2.0	.0	3.0	1.0	41.4	58.6	99
0600	6.8	.0	.0	1.7	4.2	11.0	.8	2.5	.0	.8	26.0	72.0	118
1200	5.3	.0	.8	1.5	12.0	9.8	3.8	1.5	.8	.8	36.1	63.9	193
1800	2.9	.0	.7	6.5	8.0	8.7	4.3	2.2	.7	4.3	38.4	61.6	138
TOT	27	0	2	13	42	53	14	8	5	9	175	319	488
PCT	5.5	.0	.4	3.1	8.6	10.9	2.9	1.6	1.0	1.6	35.9	64.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	4.1	1.2	1.8	10.7	18.3	63.9	109
0600	2.8	2.8	1.7	9.9	16.0	66.9	101
1200	5.6	.9	1.5	6.1	20.2	66.2	198
1800	2.2	.9	2.7	10.9	14.7	69.0	104
TOT	27	9	14	48	127	487	732
PCT	3.7	1.2	1.9	9.3	17.3	66.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
0000	8.2	8.2	15.3	28.9	55.7	97
0600	6.3	6.3	13.4	17.0	69.6	112
1200	5.5	7.8	16.4	27.3	56.3	128
1800	3.0	4.8	19.3	24.1	56.4	133
TOT	26	31	77	114	279	470
PCT	5.5	6.6	16.4	24.3	59.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.6	.9	8	2.3
69/69	.0	.0	.0	.6	.6	1.9	.9	1.3	17	5.4
68/64	.0	.0	.0	.3	3.2	3.7	6.9	10.7	83	26.8
55/59	.0	.0	.0	.3	3.2	3.6	9.8	13.2	92	29.3
50/54	.0	.0	.0	.9	2.8	4.1	9.1	11.0	87	27.4
45/49	.0	.0	.0	.0	.6	1.3	3.2	3.3	27	8.5
TOTAL	0	0	0	6	30	36	97	129	317	100.0
PCT	.0	.0	.0	1.6	9.5	17.7	30.6	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	1.2	.0	.0	.3	.0	.0	.3	.7	.0	.0
69/69	1.3	.4	.6	.0	.6	.2	.9	1.3	.0	.0
68/64	7.0	6.2	1.9	1.8	2.3	3.0	1.8	2.4	.0	.3
55/59	6.3	6.0	2.3	1.0	3.1	4.0	2.8	3.3	.0	.3
50/54	5.6	3.6	2.9	3.3	4.5	3.4	.7	2.3	.0	.6
45/49	.3	1.3	.8	.9	3.2	1.3	.3	.3	.0	.0
TOTAL	22.1	17.5	8.4	7.6	13.6	11.8	6.9	10.8	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	70	64	55	47	43	42	55.0	554
0600	72	66	62	54	46	43	43	54.3	382
1200	82	70	65	56	49	46	41	56.4	743
1800	81	75	70	59	50	48	45	58.8	374
TOT	82	72	65	56	48	45	41	56.1	2053

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	7.8	14.3	32.3	45.3	87	77		
0600	.0	2.8	2.8	14.1	33.8	46.3	87	71		
1200	.0	.0	13.1	17.2	29.3	40.4	85	99		
1800	.0	4.1	12.3	27.4	26.0	30.1	81	73		
TOT	0	5	30	98	97	130	45	320		

NOVEMBER

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1860-1975

TABLE 17

AREA 0013 BAHIA BLANCA
39.95 57.24PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2	.2	.2
14/16	.0	.0	.0	.0	.0	.3	.2	1.3	.2	.2	.2	14	.3	2.0
11/13	.0	.0	.0	.0	.0	1.0	1.2	.5	.2	.0	.0	17	.2	2.6
9/10	.0	.0	.0	.0	1.0	1.8	1.0	.8	.0	.0	.0	29	.2	3.9
7/8	.0	.0	.0	.2	2.0	4.1	1.2	.2	.0	.0	.0	46	.3	7.4
6	.0	.0	.0	.3	1.0	1.2	.2	.0	.0	.0	.0	16	.0	2.6
5	.0	.0	.3	2.6	1.8	3.9	.8	.0	.0	.0	.0	37	1.0	8.4
4	.0	.0	1.2	2.0	2.8	2.3	.5	.0	.0	.0	.0	39	.8	7.9
3	.0	.0	1.0	2.8	2.0	2.3	.0	.0	.0	.0	.0	49	.5	7.6
2	.0	.5	1.6	3.6	3.8	2.0	.0	.0	.0	.0	.0	70	1.3	10.2
1	.0	.2	2.1	2.8	2.8	1.3	.2	.2	.0	.0	.0	98	1.2	8.4
0	.2	.8	3.0	2.8	2.1	1.2	.0	.0	.0	.0	.0	81	1.2	8.9
-1	.2	.8	1.6	1.2	1.3	.3	.0	.0	.0	.0	.0	39	1.0	4.4
-2	.0	.8	1.8	1.6	1.3	.3	.0	.0	.0	.0	.0	37	.5	3.6
-3	.0	.5	.8	1.3	1.0	.2	.0	.0	.0	.0	.0	24	.5	3.3
-4	.0	.8	.8	.8	.0	.0	.2	.0	.0	.0	.0	14	.7	1.6
-5	.2	.3	.3	.7	.0	.0	.0	.0	.0	.0	.0	11	.2	1.6
-6	.2	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	4	.2	.3
-7/-8	.0	.2	.8	.3	.0	.2	.0	.0	.0	.0	.0	10	.0	1.6
-9/-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-11/-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-14/-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3	31	94	144	140	139	39	16	3	1	2	608	62	546
PCT	.5	5.1	15.5	23.7	23.0	22.9	5.8	2.6	.5	.2	.3	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	1.3	1.7	.9	.0	.0	.0	4.0	41	.0	.1	.3	.0	.0	.0	.4
1-2	.0	2.0	1.3	.0	.0	.0	3.2	1-2	.0	1.9	.9	.0	.0	.0	2.8
3-4	.0	2.2	4.8	.1	.0	.0	7.3	3-4	.0	3.7	3.8	.1	.0	.0	7.3
5-6	.0	.0	2.2	.2	.0	.0	2.4	5-6	.0	.3	1.6	.1	.0	.0	2.0
7	.0	.0	2.3	.3	.0	.0	2.7	7	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.3	.3	1.1	.0	.0	1.7	8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.2	.0	.0	.5	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	6.2	12.2	2.1	.0	.0	21.8	TOT PCT	.0	3.9	8.9	.2	.0	.0	15.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	.3	.0	.0	.0	.0	.0	.3
1-2	.0	1.2	.0	.0	.0	.0	1.2	1-2	.1	2.2	.0	.0	.0	.0	2.3
3-4	.0	2.4	2.0	.0	.0	.0	4.3	3-4	.0	1.0	.3	.1	.0	.0	1.4
5-6	.0	.0	1.4	.0	.0	.0	1.4	5-6	.0	.0	1.4	.4	.0	.0	1.8
7	.0	.0	.3	.0	.0	.0	.3	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	3.8	.3	.0	.0	7.7	TOT PCT	.4	3.2	2.1	.9	.0	.0	6.6

PERIOD: (OVER-ALL) 1963-1975

NOVEMBER
TABLE 16 (CONT)AREA 0013 BAHIA BLANCA
39.55 57.2W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.2	.0	.0	.0		.2	.9	.0	.1	.0	.0	.0		1.0
1-2	.2	3.0	.2	.0	.0	.0		3.5	.3	2.6	.4	.0	.0	.0		3.2
3-4	.0	.3	.9	.5	.0	.0		1.8	.0	1.3	.9	.0	.0	.0		1.8
5-6	.0	.3	1.2	.5	.0	.0		2.0	.0	.0	1.3	1.1	.0	.0		2.3
7	.0	.0	.0	.0	.0	.0		.0	.0	.3	.6	.9	.1	.0		2.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.6	.0	.0		.8
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.3	.0	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.2	.0	.0	.0		.2	.0	.0	.1	.6	.3	.0		1.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	3.7	3.6	1.3	.0	.0		8.8	1.3	4.2	3.4	2.3	.4	.0		12.3

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0		.6	.2	.1	.0	.0	.0	.0		.3
1-2	.0	1.2	.0	.0	.0	.0		1.2	.0	3.2	.9	.0	.0	.0		4.1
3-4	.0	1.1	1.0	.3	.0	.0		2.4	.0	1.7	2.8	.0	.0	.0		4.5
5-6	.0	.0	.2	.2	.0	.0		.3	.0	.0	.7	.0	.0	.0		.7
7	.0	.0	.0	.0	.2	.0		.2	.0	.0	.3	.0	.0	.0		.3
8-9	.0	.0	.2	.3	.0	.0		.3	.0	.0	.0	.1	.0	.0		.1
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	1.3	.0	.0		1.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	2.6	1.8	.9	.2	.0		5.8	.2	3.0	4.9	1.4	.0	.0		11.6 89.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.4	2.2	1.0	.0	.0	.0	17.1	
1-2	.9	17.1	3.7	.0	.0	.0	21.8	
3-4	.0	13.7	13.9	1.2	.0	.0	30.8	
5-6	.0	.6	10.0	2.3	.0	.0	13.1	
7	.0	.3	6.2	1.2	.3	.0	8.1	
8-9	.0	.3	1.9	2.2	.0	.0	4.4	
10-11	.0	.0	.9	2.3	.0	.0	3.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.3	.6	.3	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.3	34.3	40.3	10.3	.6	.0	100.0	321

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	2.6	12.2	13.8	9.9	2.3	2.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	4
6-7	.0	.5	8.3	6.3	4.4	2.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
8-9	.0	.0	.3	3.1	2.3	1.8	1.3	.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	8
10-11	.0	.8	.3	.0	.0	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
12-13	.0	.0	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
313	.0	.0	.0	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	8.1	1.6	3.1	.8	.3	.8	.3	.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	3
TOTAL	41	38	103	79	37	29	16	6	11	4	1	0	0	0	0	0	0	0	0	383	3
PCT	10.6	19.1	26.8	20.3	9.6	7.3	4.2	1.6	2.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

AREA 0013 SAMIA BLANCA
39.55 97.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG NEA
N	1.6	.0	.0	.0	.0	.0	.0	1.6	1.2	.0	1.6	.0	.0	.0	95.5
NE	3.6	.0	.0	.0	.0	.0	.0	3.6	3.0	2.4	2.4	.0	.0	.0	88.4
E	.0	10.2	.0	.0	.0	.0	.0	10.2	2.5	.0	3.4	.0	.0	.0	85.9
SE	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	96.6
S	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	8.1	2.3	.0	.0	87.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	6.2	.0	.0	.0	88.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT OBS:	1.1	.8	.0	.0	.0	.0	.0	1.9	2.2	.5	2.7	.3	.0	.0	92.5

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRFL	FRIG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG NEA
0600	2.1	1.1	.0	.0	.0	.0	.0	3.2	1.1	.0	3.2	.0	.0	.0	92.6
0600	2.2	.0	.0	.0	.0	.0	.0	2.2	5.6	2.2	2.2	.0	.0	.0	87.8
1200	.0	2.0	.0	.0	.0	.0	.0	2.0	1.0	.0	3.0	1.0	.0	.0	92.9
1800	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	2.2	.0	.0	.0	96.7
TOT PCT TOT OBS	1.1 375	.0	.0	.0	.0	.0	.0	1.9	2.1	.3	2.7	.3	.0	.0	92.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	.0	7.0	8.8	1.7	.3	.0		18.8	12.6		18.0	22.3	31.7	18.1	17.4	18.9	18.9
NE	1.1	9.4	5.1	.3	.1	.0		19.9	9.8		17.7	14.5	23.7	19.1	19.1	20.3	19.6
E	1.0	3.4	2.4	.2	.0	.0		6.9	9.6		9.3	8.0	3.9	3.7	5.6	6.7	6.7
SE	1.0	3.9	2.3	.9	.0	.0		8.1	10.9		9.6	8.8	7.2	6.7	8.3	8.6	7.8
S	1.0	3.9	3.7	1.4	.2	.0		10.3	12.3		11.9	9.2	6.3	7.3	11.0	9.9	10.3
SW	.9	4.0	4.1	2.1	.8	.1		11.6	14.4		11.7	12.2	11.1	10.2	10.0	12.3	12.3
W	1.0	3.3	3.3	1.1	.1	.0		7.8	12.2		7.2	6.8	1.8	9.8	9.3	7.9	12.1
NW	.9	7.1	6.9	1.9	.1	.0		15.9	12.4		10.7	18.2	7.0	23.3	20.6	20.0	19.0
VAR	.8	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		3.6	2.4	5.2	3.3	4.4	2.4	6.3
TOT OBS	188	684	581	136	19	2	1830		11.3		276	188	97	171	270	373	99
TOT PCT	11.5	42.3	35.6	9.6	1.2	.1	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-48	49+						00	03	09	12	15	21	
N	3.0	9.7	4.5	.5	.0			18.6	12.6		19.7	23.0	17.1	18.2			
NE	5.0	9.0	1.8	.1	.0			19.9	9.8		16.3	18.2	14.8	17.2			
E	2.6	3.2	1.0	.0	.0			6.9	9.6		8.8	5.0	6.2	7.0			
SE	2.4	4.3	1.2	.2	.0			8.1	10.9		8.7	6.9	8.6	7.3			
S	3.2	4.2	2.4	.5	.0			10.3	12.3		10.9	7.7	10.4	11.7			
SW	3.4	3.7	3.4	1.0	.1			11.6	14.4		11.9	10.3	11.4	12.9			
W	2.3	3.0	1.8	.5	.0			7.8	12.2		7.1	6.9	6.6	8.2			
NW	3.9	8.2	4.4	.9	.0			16.9	12.4		13.3	17.3	20.2	14.1			
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0			
CALM	3.7							3.7	.0		3.2	4.1	3.3	5.3			
TOT OBS	301	737	335	59	2	1630			11.3		444	268	643	273			
TOT PCT	30.7	45.2	20.6	3.4	.1			100.0			100.0	100.0	100.0	100.0			

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

AREA 0013 BAHIA BLANCA
39.33 37.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	3.2	10.6	43.7	33.6	8.3	.7	.0	10.8	100.0	444
0600Z	4.1	9.0	41.8	35.4	9.3	.4	.0	10.8	100.0	288
1200Z	3.3	6.4	40.0	37.3	10.6	2.0	.3	12.2	100.0	643
1800Z	5.5	3.3	44.0	34.9	9.5	.7	.0	11.4	100.0	275
TOT	61	127	684	581	156	19	2	11.3		1627
PCT	3.7	7.8	42.0	35.6	9.6	1.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	9.4	2.8	4.3	1.3		3.8
NE	9.7	2.4	3.2	3.4		3.9
E	2.7	.6	3.1	1.5		4.4
SE	3.8	1.3	2.2	1.0		3.1
S	4.7	1.3	3.0	.8		3.3
SW	3.5	1.1	2.9	.9		2.9
W	4.2	1.8	1.4	.2		2.7
NW	6.2	1.8	1.9	1.1		2.7
VAR	.0	.0	.0	.0		.0
CALM	4.2	.7	.7	.3		1.6
TOT OBS	183	42	76	34	307	3.1
TOT PCT	30.3	13.7	24.8	11.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./M)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.3	2.4	1.2	.3	.0	.2	13.3	
NE	.2	.0	.0	1.0	.7	1.3	.7	.7	1.0	1.4	13.8	
E	.3	.0	.0	.3	1.3	.3	.7	.3	.0	.3	4.2	
SE	.3	.0	.0	.0	.8	1.0	.3	.0	.3	.0	3.3	
S	.0	.0	.0	.0	.7	1.1	.3	.0	.0	.3	7.4	
SW	.3	.0	.0	.0	.6	1.6	1.0	.0	.0	.0	6.8	
W	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	7.0	
NW	.0	.0	.0	.0	.8	.6	.4	.3	.0	.0	9.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	4.9	
TOT OBS	4	0	0	4	20	28	14	4	4	10	218	307
TOT PCT	1.3	.0	.0	1.3	6.3	9.1	4.6	1.6	1.3	3.3	71.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM)	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	4.3	4.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
OR >5000	8.6	8.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
OR >3500	9.9	10.9	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
OR >2000	14.3	19.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
OR >1000	18.1	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
OR >600	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
OR >300	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
OR >150	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
OR >0	18.8	25.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3	28.3
TOTAL	97	77	87	87	87	87	87	87	87	90

TOTAL NUMBER OF OBS: 304

PCT FREQ NH <5/8: 70.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	38.8	11.3	8.0	6.7	5.2	7.4	7.7	6.1	8.0	1.2	376

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1871-1975

DECEMBER

AREA 0013 SANJA BLANCA
39.85 57.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PLY	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.5	
	TOT %	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	1.1	.0	.3	.0	.5	.0	.9	.0	.0	3.0	
	TOT %	.2	1.3	.3	.3	.0	.5	.0	.9	.0	.0	3.0	
5<10	PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	1.4	4.0	.6	1.1	2.2	3.2	.3	.3	.0	.0	14.0	
	TOT %	2.1	4.0	.6	1.1	2.2	3.2	.3	.3	.0	.0	14.3	
10+	PCP	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	13.9	18.0	6.3	6.4	9.1	7.1	6.3	8.9	.0	3.9	80.1	
	TOT %	13.9	18.6	6.3	6.4	9.1	7.1	6.3	8.9	.0	3.9	80.0	
TOT OBS													371
TOT PCT		14.3	22.2	8.0	7.8	11.4	10.9	6.8	10.3	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.2	.0	.0	.0	.0	.0	.2	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	11-21	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.2	.0	.2	.0	.0	.0	.0	.4	1.1	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.3	.6	.0	.3	.3	.0	.0	.0	.0	.0	2.2	
	11-21	.0	.4	.3	.3	.2	.0	.2	.0	.0	.0	1.9	
	22+	.0	.0	.2	.2	.0	.3	.1	.2	.0	.0	1.3	
	TOT %	.3	1.3	.8	.9	.5	.3	.1	1.0	.0	.0	5.6	
5<10	0-3	.0	.4	.0	.0	.2	.0	.0	.0	.0	.0	.6	
	4-10	1.0	.8	.2	.3	.8	.9	.4	.2	.0	.0	4.3	
	11-21	1.1	2.0	.3	.7	.7	1.9	.2	.0	.0	.0	7.1	
	22+	.2	.0	.0	.0	.6	.3	.2	.2	.0	.0	1.3	
	TOT %	2.3	3.2	.7	1.0	2.3	3.0	.8	.4	.0	.0	13.8	
10+	0-3	.3	.3	.1	.3	.6	.3	.4	.3	.0	3.2	8.6	
	4-10	3.7	8.3	3.6	2.6	3.0	2.3	2.4	4.4	.0	.0	30.3	
	11-21	8.3	4.8	2.7	2.2	4.1	3.9	2.0	4.6	.0	.0	32.9	
	22+	.6	.3	.2	1.0	1.6	1.1	1.0	.0	.0	.0	8.2	
	TOT %	13.3	14.2	6.6	6.4	9.4	8.1	5.8	9.4	.0	3.2	78.3	
TOT OBS													465
TOT PCT		14.1	19.1	8.5	8.5	7.7	11.8	6.7	10.8	.0	3.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1975
(OVER-ALL) 1971-1975

AREA 0013 BAHIA BLANCA
39.93 97.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 2499	3000 3499	4000 4499	5000 5499	6000+ 7999	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	2.4	.0	.0	1.2	7.2	4.8	1.2	1.2	1.2	4.8	24.1	79.9	83
0600	1.7	.0	.0	.0	1.7	6.8	6.8	.0	.0	1.7	18.6	81.4	99
1200	1.1	.0	.0	2.2	10.1	10.1	9.0	1.1	3.4	3.4	40.4	99.6	89
1800	.0	.0	.0	1.2	4.7	12.8	2.3	3.3	.0	2.3	26.7	79.3	86
TOT PCT	4 1.3	0 .0	0 .0	4 1.3	20 6.3	28 8.8	19 4.7	3 1.0	4 1.3	10 3.2	90 28.4	227 71.6	317 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
0000	.8	.0	.0	7.3	18.6	81.3	123
0600	.9	.0	.9	4.7	20.8	78.6	106
1200	.8	1.6	2.3	6.2	16.3	72.9	120
1800	.9	.0	.9	3.6	9.9	84.7	111
TOT	4	2	9	26	67	363	469
PCT	.9	.4	1.1	5.3	14.3	77.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	2.4	2.4	6.1	18.3	79.6	82
0600	1.8	1.8	1.8	17.3	80.7	97
1200	1.2	1.2	8.1	33.7	98.1	86
1800	.0	.0	3.8	29.3	70.9	79
TOT	4	4	18	74	214	304
PCT	1.3	1.3	5.3	24.3	70.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.0	.0	1	.6
76/74	.0	.0	.0	.0	1.2	1.2	1.2	.0	3	3.6
63/69	.0	.0	.0	.0	1.2	6.0	8.4	3.0	26	19.8
60/64	.0	.0	.0	1.2	3.6	7.8	18.0	7.8	63	37.7
53/59	.0	.0	.0	1.2	3.6	9.6	19.2	7.2	58	34.7
50/54	.0	.0	.0	.6	.0	1.2	2.4	3.0	12	7.2
48/44	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
TOTAL	0	0	0	5	19	44	47	36	167	100.0
PCT	.0	.0	.0	3.0	9.0	26.3	40.1	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76/74	.4	.8	.0	.0	.0	.8	.0	1.3	.0	.0
63/69	4.6	4.9	.0	.0	.0	.7	1.0	2.4	.0	.0
60/64	7.3	8.7	4.8	3.3	2.3	1.8	2.7	9.8	.0	.0
53/59	3.3	1.9	1.6	4.3	7.9	3.4	3.3	3.3	.0	1.2
50/54	.0	.7	.4	.0	1.2	3.0	1.2	.6	.0	.0
48/44	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0
TOTAL	16.3	16.9	7.3	9.0	12.6	11.2	10.3	13.3	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	71	68	59	51	48	47	59.4	440
0600	72	68	64	59	50	49	49	58.5	270
1200	78	73	69	61	52	50	46	60.8	676
1800	80	77	73	63	53	51	42	62.6	230
TOT	80	75	69	60	52	50	42	60.3	1386

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.7	10.8	29.7	35.1	21.6	81	37		
0600	.0	2.3	4.7	25.6	37.2	30.2	83	43		
1200	.0	4.2	10.4	22.9	43.6	16.7	82	48		
1800	.0	2.4	9.8	29.3	41.5	17.1	80	41		
TOT	0	9	13	43	68	36	82	169		

DECEMBER

PERIOD: (PRIMARY) 1906-1975
(OVER-ALL) 1971-1975

AREA 0013 SAKIA BLANCA
39.33 97.1W

TABLE 17

PCT FREE OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	44 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
14/16	.0	.0	.0	.0	.0	.3	.8	1.1	.8	.8	14	.0	4.0
11/13	.0	.0	.0	.0	.0	.0	1.1	1.7	.0	.0	13	.0	3.7
9/10	.0	.0	.0	.0	.3	1.1	.8	1.1	.0	.0	12	.0	3.4
7/8	.0	.0	.0	.0	.0	2.3	3.4	2.0	.3	.0	29	.0	8.2
6	.0	.0	.0	.0	.3	2.3	2.0	.8	.0	.0	19	.0	5.4
5	.0	.0	.0	.3	.8	3.1	2.5	.0	.0	.0	24	.0	6.8
4	.0	.0	.0	.0	.8	3.7	2.5	.8	.0	.0	28	.3	7.6
3	.0	.0	.0	.6	.8	3.7	1.1	.0	.3	.0	23	.0	6.3
2	.0	.0	.0	.3	1.4	5.1	1.7	.0	.0	.3	31	.0	8.8
1	.0	.0	.3	.8	4.0	3.7	.6	.0	.0	.0	31	.3	8.3
0	.0	.0	.3	.8	3.4	3.1	.3	2.0	.0	.0	35	.0	9.9
-1	.0	.0	.4	.6	3.4	.6	.0	.0	.0	.0	18	.6	4.5
-2	.0	.0	.3	2.3	2.0	1.7	.3	.0	.0	.0	23	.6	5.9
-3	.0	.0	.3	1.7	2.0	.6	.3	.0	.0	.0	17	.6	4.2
-4	.0	.0	.6	1.4	2.0	.3	.0	.0	.0	.0	15	.0	4.2
-5	.3	.0	.3	.6	.3	.3	.0	.0	.0	.0	6	.0	1.7
-6	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	2	.0	.6
-7/-8	.0	.0	.6	.8	.3	.3	.0	.0	.0	.0	9	.0	2.5
-9/-10	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
-11/-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	1	.3	.0
-14/-16	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	0	12	37	81	114	62	34	5	8	354	2.3	345
PCT	.3	.0	3.4	10.3	22.9	32.2	17.5	9.6	2.3	1.4	100.0	2.3	97.3

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREE OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.3	.0	.0	.0	1.6	.9	1.6	.0	.0	.0	.0	2.3
1-2	.0	1.6	.3	.0	.0	.0	2.1	.0	6.3	.0	.0	.0	.0	6.3
3-4	.0	1.3	3.4	.0	.0	.0	4.7	.0	3.3	4.3	.0	.0	.0	7.6
5-6	.0	.0	3.8	.0	.0	.0	3.8	.3	.6	2.0	.0	.0	.0	3.0
7	.0	.0	1.2	.0	.0	.0	1.6	.0	.0	2.1	.0	.0	.0	2.1
8-9	.0	.0	.7	.3	.0	.0	1.2	.0	.0	.1	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	12.0	.9	.0	.0	17.4	1.4	12.0	8.4	.3	.0	.0	22.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	.3	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.3	.0	.0	.0	.7
3-4	.0	1.6	1.2	.0	.0	.0	3.0	.3	1.4	.9	.0	.0	.0	2.8
5-6	.0	.3	1.4	.0	.0	.0	1.7	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	1.4	.0	.0	1.4	.1	.0	.0	1.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	2.3	.9	.0	.0	8.2	.3	2.6	3.2	1.6	.0	.0	7.9

PERIOD: (OVER-ALL) 1962-1975

DECEMBER

AREA 0013 BAHIA BLANCA
39.35 57.1W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0		.3	.0	1.4	.0	.0	.0	.0		1.4
1-2	.0	2.1	.0	.0	.0	.0		2.1	.0	2.1	.0	.0	.0	.0		2.1
3-4	.0	.3	1.3	.3	.0	.0		2.4	.0	.2	2.6	.0	.0	.0		2.9
5-6	.0	.0	1.8	.0	.0	.0		1.8	.0	.6	2.0	.2	.0	.0		2.8
7	.0	.0	.8	.8	.0	.0		1.6	.0	.0	.4	.0	.0	.0		.6
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.6	.3	.0	.0		1.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.3	.3	.0		.3	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	2.9	4.1	1.8	.0	.0		8.6	.0	4.3	3.8	.7	.0	.0		10.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.3	.0	.0	.0	.0		.3	
1-2	.0	1.2	.0	.0	.0	.0		1.2	.0	1.7	.3	.0	.0	.0		2.2	
3-4	.0	.7	.9	.3	.0	.0		2.1	.0	2.3	1.6	.0	.0	.0		3.9	
5-6	.0	.8	.3	.7	.0	.0		1.8	.0	.0	.7	.0	.0	.0		.7	
7	.0	.3	.9	.0	.0	.0		1.4	.0	.0	1.4	.0	.0	.0		1.4	
8-9	.0	.0	.3	.9	.7	.0		1.3	.0	.0	.2	.0	.0	.0		.2	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.1	2.3	2.1	.0	.0		7.7	.0	4.3	4.4	.0	.0	.0		8.9	91.7

WIND SPEED (KTS) VS SEA HEIGHT (FY)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	6.3	.3	.0	.0	.0	16.1	
1-2	.0	16.6	1.4	.0	.0	.0	18.0	
3-4	.3	11.3	18.4	.9	.0	.0	31.3	
5-6	.3	2.3	12.4	1.4	.0	.0	16.6	
7	.0	.9	8.8	1.8	.0	.0	11.5	
8-9	.0	.0	2.3	2.3	.0	.0	4.6	
10-11	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	37.8	43.8	4.3	.0	.0	100.0	217

PERIOD: (OVER-ALL) 1949-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FY) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	12.9	24.7	8.9	3.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	3
6-7	.0	.0	4.4	8.3	4.8	3.2	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
8-9	.0	.0	.7	.0	3.3	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.0	.0	.0	.4	1.1	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
12-13	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDEX	6.6	1.1	1.8	2.6	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	2
TOTAL	23	98	87	56	34	24	6	1	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	271	4
PCT	8.9	14.0	32.1	20.7	12.5	8.9	2.2	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

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AREA 0013 BAHIA BLANCA
39.95 57.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THUR LTNG	POG WD PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	1.7	1.1	1.2	.0	.0	.0	.1	4.0	.9	1.6	11.6	.2	1.6	.0	80.2
NE	2.6	1.2	.8	.0	.0	.0	.1	4.6	1.2	1.8	14.7	.1	.1	.0	76.8
E	3.4	2.8	.8	.0	.0	.0	.0	9.0	2.1	1.0	12.3	.1	1.2	.0	74.6
SE	2.6	2.2	.7	.0	.0	.0	.0	5.4	2.2	1.6	6.0	.0	.8	.0	84.1
S	1.9	1.3	1.7	.0	.0	.0	.0	4.9	2.5	1.0	3.3	.2	.4	.0	85.9
SW	1.6	1.1	.8	.0	.0	.0	.3	3.5	2.7	.7	4.3	.1	.4	.4	88.2
W	.8	1.1	.4	.0	.0	.0	.1	2.9	.8	1.0	6.0	.2	1.2	.3	88.3
WN	1.3	.4	.4	.0	.0	.0	.1	2.1	.9	1.4	7.9	.2	1.0	.1	86.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.6	1.0	.0	.0	.0	.0	.0	1.6	.8	1.1	7.2	1.2	.2	.0	87.9
TOT PCT	1.9	1.3	.8	.0	.0	.0	.1	4.0	1.9	1.3	8.6	.2	1.0	.1	83.6
TOT OBS:	6966														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	POG WD PCPN	POG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0800	1.8	1.3	.3	.0	.0	.0	.1	3.8	1.7	2.2	9.8	.1	.9	.0	81.9
0500	2.4	1.1	1.4	.0	.0	.0	.0	4.9	1.8	2.7	8.0	.2	.4	.1	82.2
1800	1.9	1.0	.8	.0	.0	.0	.2	3.7	1.2	.8	9.1	.2	1.3	.1	84.1
1800	1.7	1.4	.8	.0	.0	.0	.0	3.8	1.7	.1	8.1	.3	1.3	.0	84.8
TOT PCT	2.0	1.3	.8	.0	.0	.0	.1	4.0	1.6	1.3	8.7	.2	1.0	.1	83.4
TOT OBS:	7088														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12
N	.9	6.1	6.9	1.3	.1	.0		19.3	12.6	14.9	16.3	21.1	15.9	16.1	13.4
NE	.8	5.5	4.3	.4	.1	.0		11.3	10.9	13.3	11.2	13.4	9.2	10.4	10.0
E	.6	2.6	1.9	.3	.1	.0		5.7	10.8	6.4	5.6	3.9	4.8	9.0	6.0
SE	.0	4.1	2.0	.8	.2	.0		8.9	11.3	9.7	9.6	6.8	9.6	8.7	9.4
S	.4	4.6	4.3	1.6	.4	.1		12.2	13.7	12.3	12.0	10.3	11.7	12.0	12.9
SW	1.0	4.8	3.1	2.1	.8	.2		14.1	14.9	14.8	13.6	13.1	13.2	14.2	12.9
W	1.0	4.9	4.2	1.3	.4	.1		11.4	12.6	11.1	11.3	10.6	12.1	11.8	12.8
WN	.8	6.3	7.4	2.3	.3	.0		17.2	13.3	13.4	17.9	13.8	20.8	18.8	19.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.8	2.3	3.1	2.7	3.3	3.4
TOT OBS							29203		12.3		4359	2822	1894	2810	4417
TOT PCT	10.4	38.0	37.3	10.3	2.3	.4		100.0			100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	3.2	7.9	3.8	.3	.0			15.3	12.6	15.4	17.7	14.8
NE	3.0	6.1	2.0	.2	.0			11.3	10.9	12.3	10.9	12.1
E	1.9	2.8	.8	.1	.1			5.7	10.8	6.1	3.1	5.5
SE	2.7	4.1	1.6	.4	.1			8.9	11.3	9.7	8.3	8.6
S	3.1	3.1	2.9	.8	.2			12.2	13.7	12.3	11.2	12.4
SW	3.2	3.6	3.4	1.4	.4			14.1	14.9	14.4	13.4	13.5
W	3.1	3.3	2.6	.8	.1			11.9	12.6	11.2	11.4	12.3
WN	3.2	8.2	4.7	1.0	.1			17.2	13.3	13.1	18.1	19.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.4	2.7	3.1
TOT OBS						25293		12.3		7187	4404	3174
TOT PCT	26.8	43.1	21.9	3.1	1.1			100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1904-1974
(OVER-ALL) 1894-1974

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39.35 57.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	3.4	8.1	39.4	36.2	9.8	2.5	.5	12.2	100.0	7187
0600Z	3.7	6.8	38.5	38.0	10.5	2.2	.5	12.3	100.0	4404
1201Z	3.1	7.1	38.0	37.2	11.5	2.7	.4	12.8	100.0	9174
1802Z	3.2	5.9	40.3	38.4	9.7	2.1	.4	12.4	100.0	4330
TOT								12.3		23295
PCT	3.3	7.0	38.9	37.3	10.3	2.3	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.0	3.1	4.1		4.0
NE	3.1	1.2	3.3	4.3		4.8
E	1.8	.4	1.3	2.4		3.1
SE	1.8	.8	1.6	1.8		4.6
S	3.7	1.7	3.2	1.9		4.0
SW	6.3	2.9	4.7	2.1		3.7
W	5.8	1.8	2.1	1.4		3.0
NW	6.2	1.3	3.4	2.4		3.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	.3	1.0	.7		3.3
TOT OBS					3194	3.9
TOT PCT	40.2	12.6	26.1	21.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MH >4/8) AND OCCURRENCE OF MH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	2500	3000	6500	8000+	MH <4/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	1.6	.0	.1	.4	1.2	1.6	.4	.3	.3	.3	11.9	
NE	1.2	.0	.1	.4	1.2	1.7	.8	.3	.4	.2	7.6	
E	.4	.0	.1	.4	1.1	.8	.3	.2	.0	.1	2.7	
SE	.3	.0	.0	.3	.9	.8	.4	.1	.1	.0	3.2	
S	.2	.0	.0	.3	1.2	1.3	.8	.1	.2	.1	6.1	
SW	.5	.0	.0	.3	1.4	2.0	.9	.2	.1	.1	10.3	
W	.2	.0	.0	.2	.7	.7	.5	.0	.1	.1	6.6	
NW	.4	.0	.0	.6	.8	1.1	.3	.1	.1	.2	9.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.1	.3	.6	.1	.0	.0	.1	2.7	
TOT OBS	3.2	.0	.4	3.3	8.7	10.6	5.2	1.4	1.3	1.3	62.6	3194
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MH >4/8) AND VSBY (MH)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4000	1.6	2.4	2.3	2.3	2.3	2.3	2.3	2.3
>3000	2.7	3.8	3.9	3.9	3.9	3.9	3.9	3.9
>2000	6.3	8.0	9.1	9.1	9.1	9.1	9.1	9.1
>1000	12.0	18.1	19.3	19.4	19.4	19.4	19.3	19.3
>500	16.4	23.4	27.7	28.0	28.1	28.2	28.3	28.4
>200	17.9	26.1	30.9	31.2	31.4	31.6	31.7	31.7
>100	18.1	28.4	31.2	31.6	31.7	31.9	32.0	32.0
>50	18.1	28.4	31.2	31.6	31.8	31.9	32.0	32.0
>0	18.1	28.3	31.9	32.4	32.8	34.3	36.8	37.3

TOTAL NUMBER OF OBS: 3095

PCT FREQ MH <5/8: 62.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
31.9	8.0	9.4	7.0	5.8	5.1	6.3	8.4	13.2	4.7	9493

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

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AREA 0013 SANIA BLANCA
39.95 97.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.3	1.1	.4	.1	.2	.4	.1	.3	.0	.2	4.3	
	TOT S	1.3	1.1	.4	.2	.2	.4	.1	.3	.0	.2	4.3	
1/2<1	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.2	.1	.1	.1	.0	.1	.1	.0	.0	.7	
	TOT S	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	1.0	
1<2	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	TOT S	.2	.1	.1	.0	.1	.0	.0	.1	.0	.1	.3	
2<5	PCP	.1	.1	.1	.1	.2	.1	.0	.1	.0	.0	.0	.0
	NO PCP	.0	1.0	.3	.3	.4	.3	.3	.3	.0	.0	4.4	
	TOT S	.9	1.1	.4	.4	.6	.4	.3	.4	.0	.2	4.4	
5<10	PCP	.0	.0	.0	.1	.2	.1	.2	.1	.0	.0	1.4	
	NO PCP	3.3	4.1	1.8	2.2	3.0	3.5	3.3	3.2	.0	1.0	29.4	
	TOT S	3.6	4.3	2.1	2.3	3.1	3.7	3.5	3.3	.0	1.0	31.0	
10+	PCP	.1	.1	.1	.0	.1	.2	.0	.1	.0	.0	.7	
	NO PCP	10.3	7.4	3.2	3.4	6.4	9.7	6.6	7.4	.0	2.3	56.9	
	TOT S	10.4	7.5	3.3	3.4	6.5	9.9	6.7	7.5	.0	2.3	57.5	
TOT OBS													8940
TOT PCT		10.8	14.3	6.9	6.4	10.6	14.7	10.7	14.0	.0	3.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.0	.1	.0	.0	.1	.0	.2	.0	
	4-10	.0	.0	.2	.1	.1	.2	.1	.2	.0	.0	2.0	
	11-21	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	1.1	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT S	1.1	1.0	.4	.2	.2	.3	.1	.3	.0	.2	4.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT S	.2	.2	.1	.1	.1	.1	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.3	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT S	.2	.1	.2	.1	.1	.1	.1	.2	.0	.1	1.2	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.4	.0	.1	.2	.2	.2	.1	.3	.0	.0	1.9	
	11-21	.0	.0	.3	.2	.3	.3	.2	.3	.0	.0	2.7	
	22+	.1	.2	.1	.1	.1	.3	.1	.0	.0	.0	1.0	
	TOT S	1.0	1.1	.3	.6	.6	.7	.4	.7	.0	.2	6.0	
5<10	0-3	.2	.2	.1	.1	.0	.1	.1	.1	.0	.0	1.8	
	4-10	1.9	1.7	.9	.8	1.0	1.0	1.2	1.9	.0	.0	10.3	
	11-21	2.3	1.7	.8	1.1	1.4	1.7	1.2	2.1	.0	.0	12.3	
	22+	.3	.3	.2	.2	.3	.7	.0	.3	.0	.0	3.3	
	TOT S	4.9	3.9	2.0	2.1	2.9	3.5	3.1	4.3	.0	.0	27.9	
10+	0-3	.4	.2	.3	.3	.3	.4	.3	.0	.0	2.3	5.0	
	4-10	3.6	3.3	1.9	2.0	2.4	3.3	2.9	3.3	.0	.0	22.8	
	11-21	5.3	3.4	1.2	1.2	3.3	4.9	3.3	4.0	.0	.0	26.6	
	22+	.9	.3	.1	.3	.9	1.6	1.0	.7	.0	.0	5.7	
	TOT S	10.1	7.2	3.5	3.8	6.9	10.3	7.5	8.4	.0	2.3	60.1	
TOT OBS													8948
TOT PCT		17.7	13.6	6.8	6.8	10.8	15.0	11.3	14.4	.0	3.7	100.0	

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

ANNUAL

AREA 0013 BAHIA BLANCA
39.55 37.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HR (GMT)	000	180	300	600	1000	2000	3300	5000	6300	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL DBS
0000	149	299	399	999	1999	3499	4999	6499	7999				
0000	6.0	.0	.3	3.3	8.2	9.4	3.9	1.1	1.1	1.5	34.9	63.1	1209
0600	6.3	.1	.2	2.0	3.3	7.8	4.9	1.0	.8	.8	29.3	70.7	1031
1200	4.9	.0	.4	3.3	10.8	10.3	6.3	1.1	2.0	1.2	40.7	39.3	1543
1800	4.0	.0	.3	3.8	8.3	12.1	9.0	2.2	1.1	1.3	38.4	61.6	1332
TOT													5333
PCT	5.2	.0	.3	3.2	8.6	10.2	5.0	1.4	1.2	1.2	36.3	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
0000	4.3	.9	1.3	7.1	31.8	34.6	2204
0600	4.2	1.0	1.0	6.6	30.9	36.3	1696
1200	4.0	.8	1.3	6.6	26.2	63.1	2443
1800	3.7	1.0	1.0	3.3	23.7	63.1	2111
TOT							8674
PCT	4.0	.9	1.2	3.9	28.1	79.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL DBS
0000	6.6	8.1	7.2	21.9	60.9	1191
0600	6.8	7.3	13.3	19.6	66.9	930
1200	4.8	3.9	13.0	29.3	37.3	1499
1800	3.9	4.9	12.6	27.7	39.7	1513
TOT						3093
PCT	3.3	6.3	13.9	29.4	60.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
75/79	.0	.0	.1	.1	.2	.0	.0	.0	2.9	.4
70/74	.0	.0	.1	.4	.8	1.0	.0	.0	2.9	.4
65/69	.0	.0	.2	1.0	2.4	3.2	2.9	.0	9.7	.4
60/64	.0	.0	.4	1.0	3.2	6.3	3.6	.0	17.7	.4
55/59	.0	.0	.9	2.1	4.0	7.4	8.2	.0	20.2	.4
50/54	.0	.0	.7	1.0	3.3	9.2	7.4	.0	22.3	.4
45/49	.0	.0	.3	1.1	4.1	6.4	8.8	.0	20.7	.4
40/44	.0	.0	.1	.7	1.0	1.3	2.7	.0	6.1	.4
TOTAL									3292	100.0
PCT	.0	.0	.2	2.3	9.2	18.9	33.2	34.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0
70/74	1.1	.3	.1	.2	.2	.2	.1	.3	.0	.0
65/69	2.8	1.7	.8	.4	.7	.7	.8	1.3	.0	.2
60/64	4.2	3.1	1.1	1.1	1.4	2.0	1.3	2.8	.0	.4
55/59	3.8	2.3	1.4	1.4	2.9	2.9	2.6	2.6	.0	.3
50/54	4.2	2.3	1.6	1.2	2.3	3.6	3.1	3.7	.0	.3
45/49	3.3	1.4	1.3	1.6	2.9	3.0	2.8	3.6	.0	.4
40/44	.4	.4	.4	.8	1.3	1.3	.4	.6	.0	.1
TOTAL	20.1	11.9	6.9	6.8	11.8	13.9	11.3	13.4	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	81	66	62	54	47	44	34	34.2	7093
0600	79	64	61	54	47	44	34	33.9	4394
1200	83	67	63	55	48	46	34	35.1	8908
1800	86	70	65	57	49	46	34	37.1	4330
TOT	86	67	63	55	48	45	34	35.0	24725

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	2.2	7.7	16.3	34.1	39.8	83		83	834
0600	.0	1.7	7.0	17.4	33.4	38.2	83		83	773
1215	.0	2.0	9.4	19.3	36.7	32.3	84		84	932
1821	.0	3.7	12.0	22.2	34.5	27.6	82		82	813
TOT	0	83	313	618	1188	1172	84		84	3374

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

ANNUAL

APEA 0013 BAHIA BLANCA
39.88 57.14

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	43 46	45 52	49 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	83 88	TOT	M FOG	MO FOG
23/23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	.2	.1	.1	.0	.47	.0	.0
11/13	.0	.0	.0	.0	.0	.1	.2	.1	.3	.3	.3	.2	.1	.0	103	.0	1.4
9/10	.0	.0	.0	.0	.0	.3	.4	.4	.3	.3	.2	.1	.1	.0	156	.1	2.1
7/8	.0	.0	.0	.1	.4	.6	.5	1.0	.6	.6	.4	.1	.0	.0	313	.3	4.2
6	.0	.0	.0	.1	.7	.3	.3	.5	.4	.4	.1	.0	.0	.0	185	.3	2.8
5	.0	.0	.0	.2	1.5	1.0	.8	1.3	.7	.7	.3	.0	.0	.0	433	.7	5.8
4	.0	.0	.0	1.5	1.8	1.3	.9	1.3	1.1	.7	.1	.0	.0	.0	396	1.2	7.8
3	.0	.0	.0	1.2	1.8	1.2	1.0	1.1	.9	.6	.1	.0	.0	.0	312	.9	6.8
2	.0	.0	.1	3.2	2.4	1.4	1.3	1.7	1.3	.3	.0	.0	.0	.0	749	1.2	10.3
1	.0	.0	.3	2.3	1.9	1.6	1.4	1.2	.9	.3	.0	.0	.0	.0	645	1.1	8.9
0	.0	.0	.9	2.9	2.0	1.3	1.1	1.7	1.3	.3	.0	.0	.0	.0	766	.9	10.9
-1	.0	.0	.8	1.3	1.3	.5	.9	.9	.6	.1	.0	.0	.0	.0	428	.7	5.7
-2	.0	.0	.8	1.8	1.3	.9	.9	1.4	.5	.1	.0	.0	.0	.0	344	.5	7.4
-3	.0	.0	.5	1.0	.8	.9	.8	.6	.3	.0	.0	.0	.0	.0	314	.4	4.8
-4	.0	.0	.4	.7	.6	.6	.7	.2	.0	.0	.0	.0	.0	.0	293	.2	3.8
-5	.0	.0	.3	.8	.3	.4	.4	.1	.0	.0	.0	.0	.0	.0	206	.1	3.1
-6	.0	.0	.3	.4	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	107	.1	1.6
-7/-8	.0	.1	.2	.6	.3	.5	.4	.2	.0	.0	.0	.0	.0	.0	172	.1	2.2
-9/-10	.0	.1	.0	.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	72	.0	.8
-11/-13	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	40	.1	.4
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1
TOTAL															6671		
PCT	.1	.3	4.8	18.1	18.1	13.8	12.8	14.8	9.6	9.0	1.7	.6	.3	.0	100.0	9.0	81.0

PERIOD: (OVER-ALL) 1949-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.3	1.7	.2	.0	.0	.0	1.9	.4	.7	.1	.0	.0	.0	1.3
1-2	.1	2.3	1.8	.0	.0	.0	4.4	.0	2.7	1.0	.0	.0	.0	3.8
3-4	.0	2.7	3.7	.1	.0	.0	6.0	.0	2.2	2.7	.0	.0	.0	5.0
5-6	.0	.1	2.3	.4	.0	.0	2.9	.0	.3	1.2	.1	.0	.0	1.6
7	.0	.1	1.3	.2	.1	.0	1.9	.0	.0	1.3	.2	.0	.0	1.8
8-9	.0	.1	.3	.3	.0	.0	.7	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.2	.3	.0	.0	.5	.0	.0	.3	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.1	10.0	1.7	.1	.0	18.6	.3	6.0	7.2	.7	.0	.0	14.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.3	.0	.0	.0	.0	.4	.3	.3	.0	.0	.0	.0	.8
1-2	.0	1.1	.1	.0	.0	.0	1.3	.1	1.3	.3	.0	.0	.0	1.7
3-4	.2	1.2	.8	.0	.0	.0	2.2	.0	.3	.7	.0	.0	.0	1.2
5-6	.0	.1	.8	.0	.0	.0	1.0	.0	.1	.3	.1	.0	.0	.6
7	.0	.0	.6	.2	.0	.0	.9	.0	.0	.8	.1	.0	.0	1.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.1	.1	.0	.2	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	2.3	.4	.1	.0	6.1	.4	2.3	2.3	.3	.0	.0	6.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL
TABLE 18 (CONT)AREA 0013 BAHIA BLANCA
39.35 37.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.4	.3	.9	.1	.0	.0	.0	1.3
1-2	.1	1.6	.8	.0	.0	.0	2.5	.0	2.1	.6	.0	.0	.0	2.7
3-4	.0	1.1	1.9	.1	.0	.0	3.2	.0	2.0	2.3	.1	.0	.0	4.4
5-6	.0	.2	1.4	.1	.0	.0	1.7	.0	.1	1.8	.2	.0	.0	2.2
7	.0	.1	.7	.4	.0	.0	1.2	.0	.1	1.3	.4	.0	.0	1.9
8-9	.0	.0	.5	.1	.1	.0	.7	.0	.0	.6	.4	.1	.0	1.1
10-11	.0	.0	.2	.3	.0	.1	.5	.0	.0	.1	.2	.1	.0	.5
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	5.7	1.2	.1	.1	10.5	.4	5.2	7.1	1.8	.4	.0	14.9

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.5	.0	.0	.0	.0	.6	.2	.5	.0	.0	.0	.0	.7
1-2	.4	1.7	.6	.0	.0	.0	2.3	.0	2.5	1.0	.0	.0	.0	3.5
3-4	.0	.8	1.4	.2	.0	.0	2.4	.0	1.7	2.6	.1	.0	.0	4.5
5-6	.0	.4	1.4	.2	.0	.0	2.0	.0	.4	1.6	.2	.0	.0	2.2
7	.0	.2	.8	.1	.1	.0	1.2	.0	.1	.8	.2	.0	.0	1.0
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.3	.0	.0	.3
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.6	4.9	1.2	.2	.0	10.0	.2	3.3	6.7	.9	.1	.0	13.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	4.6	.5	.0	.0	.0	13.9	
1-2	.6	13.3	6.2	.0	.0	.0	22.3	
3-4	.2	11.7	16.2	.7	.0	.0	28.8	
5-6	.0	1.8	11.0	1.4	.0	.0	14.2	
7	.1	.6	8.1	1.3	.3	.0	10.9	
8-9	.1	.1	2.7	1.3	.2	.0	4.6	
10-11	.0	.0	1.2	1.3	.2	.1	3.0	
12	.0	.0	.1	.6	.1	.0	.8	
13-16	.0	.0	.2	.7	.2	.0	1.2	
17-19	.0	.0	.0	.1	.1	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	34.6	46.3	6.4	1.0	.1	100.0	3592

PERIOD: (OVER-ALL) 1951-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	2.0	9.8	16.4	7.4	3.2	1.5	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1741	4
1-2	.0	1.7	5.3	6.0	5.3	2.8	1.1	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	943	6
3-4	.0	.3	1.3	2.1	2.3	1.3	1.2	.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	392	7
5-6	.0	.0	.4	.7	.8	.6	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	6
7-11	.0	.0	.3	.3	.4	.2	.1	.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	72	7
12-13	.0	.0	.0	.3	.3	.4	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	8
14-15	.0	.0	.0	.0	.3	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1112	3
16-17	.0	.0	.0	.0	.0	.3	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4520	3
TOT PCT	6.7	16.1	28.0	19.5	13.8	7.5	4.0	2.0	1.7	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

PERIOD: (PRIMARY) 1904-1976
(OVER-ALL) 1854-1976

APEA 0013 BAHIA BLANCA
39.95 57.1W

TABLE 20

SEA TMP DEC F	PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP												C P) BY MONTH	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
94/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
73/74	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	13	.1
71/72	1.3	2.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	39	.2
69/70	3.1	7.1	3.9	.5	.1	.0	.0	.0	.0	.0	.1	.4	112	.4
67/68	6.3	17.4	10.9	3.0	.1	.0	.0	.0	.0	.0	.1	1.3	371	1.4
65/66	19.3	14.3	15.7	4.3	.3	.2	.0	.0	.0	.0	.4	1.5	974	3.8
63/64	20.3	16.9	20.9	10.8	2.0	.6	.2	.0	.0	.0	.6	2.6	1148	4.4
61/62	19.0	11.2	14.2	12.0	3.2	.4	.3	.1	.1	.2	2.2	7.9	1836	7.1
59/60	12.3	10.6	12.3	13.4	4.4	1.4	.6	.4	.1	.4	3.8	14.1	1397	6.2
57/58	9.8	7.1	9.5	18.4	7.9	1.6	.4	1.2	.8	1.3	11.3	19.7	1792	6.9
55/56	6.6	4.9	9.7	14.3	13.3	5.3	1.1	.7	.9	4.2	19.7	12.4	1831	7.2
53/54	9.8	3.4	4.3	11.1	13.8	5.4	3.3	1.3	1.4	7.8	14.9	9.9	1699	6.6
51/52	3.1	1.8	2.4	6.3	14.2	9.6	6.7	4.9	3.3	15.4	13.8	8.8	1993	7.7
49/50	1.1	.2	.6	4.0	13.3	15.1	10.3	11.0	9.8	20.7	13.8	5.3	2263	8.8
47/48	.1	.0	.1	1.4	13.3	16.9	13.7	14.3	10.0	27.3	8.8	1.3	2499	9.7
45/46	.0	.0	.1	.3	11.2	23.9	28.1	26.2	41.4	16.6	4.0	.1	3234	12.6
43/44	.0	.0	.0	.0	.9	16.8	23.1	23.9	19.6	4.4	.8	.0	1810	7.0
41/42	.0	.0	.0	.0	.0	1.8	8.9	13.7	6.0	.6	.0	.0	638	2.3
39/40	.0	.0	.0	.0	.1	.4	1.1	1.8	.6	.1	.0	.0	86	.3
37/38	.0	.0	.0	.0	.0	.0	.2	.0	.3	.1	.0	.0	18	.1
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1934	2437	2704	2198	1918	2099	1960	2139	2337	2138	2227	1890	238.5	100.0
MEAN	61.7	65.0	61.9	57.9	52.1	48.2	46.3	43.7	46.3	49.1	53.6	57.7	53.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1013	1009	1012	1012	1011	1010	1012	1011	1101
FEB	1012	1012	1012	1012	1013	1013	1012	1012	1012	1388
MAR	1014	1014	1014	1014	1015	1015	1015	1014	1014	2309
APR	1014	1014	1014	1013	1015	1015	1013	1013	1014	1666
MAY	1016	1017	1014	1016	1017	1016	1014	1016	1016	1362
JUN	1015	1016	1017	1015	1016	1016	1016	1015	1016	1444
JUL	1017	1017	1017	1017	1017	1017	1016	1017	1017	1366
AUG	1017	1016	1018	1016	1018	1016	1016	1016	1017	1313
SEP	1020	1019	1019	1019	1020	1019	1019	1018	1019	1671
OCT	1016	1016	1016	1016	1016	1016	1017	1016	1016	1498
NOV	1014	1014	1013	1013	1014	1014	1013	1014	1014	1367
DEC	1011	1011	1011	1011	1012	1013	1012	1011	1012	1044
ANN	1013	1013	1013	1014	1013	1013	1013	1013	1013	18117
OBS	3282	1814	1847	1800	3349	2845	1834	1826		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	994	998	1002	1007	1011	1016	1022	1025	1029
FEB	992	999	1003	1009	1012	1016	1021	1029	1028
MAR	992	998	1004	1010	1015	1019	1024	1027	1031
APR	988	995	1001	1010	1015	1019	1023	1028	1031
MAY	993	997	1003	1011	1016	1021	1027	1033	1037
JUN	992	996	1001	1009	1015	1022	1029	1033	1037
JUL	989	996	1003	1011	1017	1023	1031	1036	1040
AUG	991	997	1002	1011	1016	1022	1030	1035	1038
SEP	994	1001	1007	1014	1019	1024	1033	1037	1040
OCT	995	998	1004	1011	1016	1022	1028	1031	1035
NOV	989	999	1004	1010	1014	1018	1024	1028	1035
DEC	980	996	1000	1007	1011	1017	1023	1027	1032

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0014 RAMSON
43.75 81.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	3.6	.3	.3	.0	94.8
NE	.8	.0	.0	.0	.0	.0	.0	.8	.2	.0	1.2	.0	.8	.0	97.0
E	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.9	.0	96.7
SE	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	4.1	.0	.0	.0	93.9
S	.7	1.8	.0	.0	.0	.0	.0	2.3	.3	.0	1.3	.0	.7	.0	93.7
SW	.8	.6	.0	.0	.0	.0	.0	1.3	.3	.4	.0	.0	.4	.0	97.4
W	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	97.2
NW	1.7	.0	.0	.0	.0	.0	.0	1.7	1.0	.0	2.9	.0	.2	.0	94.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	1.0	.0	.0	.0	.0	2.1	1.0	.0	3.1	.0	.0	.0	93.8
TOT PCT	.6	.6	.1	.0	.0	.0	.0	1.2	.3	.2	1.8	.1	.3	.0	93.9
TOT OBS:	1207														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THUR LTNG	FOG WD PCPN	POG WD PCPN PAST HR	SHOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.3	.0	.0	.0	.0	.0	.3	.3	.0	1.3	.0	.0	.0	98.0
0600	1.4	1.7	.3	.0	.0	.0	.0	3.3	.7	.3	1.4	.0	.3	.0	93.8
1200	.6	.0	.0	.0	.0	.0	.0	.6	.6	.3	2.1	.0	.6	.0	93.8
1800	.3	.3	.0	.0	.0	.0	.0	.7	.3	.0	2.3	.3	.9	.0	96.0
TOT PCT TOT OBS: 1226	.6	.6	.1	.0	.0	.0	.0	1.2	.3	.2	1.8	.1	.3	.0	93.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.9	4.7	6.9	3.3	.1	.0		16.1	13.1	17.1	14.3	21.3	13.8	16.4	13.6	16.7	10.8
NE	.3	3.4	3.3	.3	.0	.0		7.6	11.4	12.8	3.6	13.3	4.2	4.2	3.1	7.3	3.8
E	.4	2.1	1.0	.1	.0	.0		3.7	9.3	4.8	2.7	3.2	3.8	4.0	1.7	3.3	2.6
SE	.4	2.1	2.0	.3	.0	.0		4.8	11.3	6.1	3.0	3.4	4.8	4.8	4.9	2.7	7.3
S	.8	4.3	4.8	1.0	.4	.1		11.6	13.6	13.3	13.2	10.8	7.7	11.8	10.3	11.3	13.0
SW	.7	6.3	8.0	3.0	.3	.1		18.6	13.0	14.3	11.4	11.7	16.4	22.3	20.4	31.1	14.3
W	.6	3.7	6.7	1.6	.3	.1		13.2	13.9	11.1	14.6	12.4	18.2	16.4	21.3	7.6	22.7
NW	.9	6.8	7.2	1.9	.3	.0		17.0	12.9	14.6	20.9	9.1	18.1	16.2	21.1	10.8	22.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.6	4.1	11.1	7.6	3.3	1.3	9.3	2.9
TOT OBS	247	891	938	282	43	8	2388		12.9	483	189	396	188	490	329	300	171
TOT PCT	10.9	35.6	40.1	11.8	1.8	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18	21	
N	2.7	6.4	6.0	1.1	.0			16.1	13.1	16.4	13.8	15.3	14.3	
NE	1.9	4.7	1.2	.1	.0			7.6	11.4	10.9	10.1	4.3	4.0	
E	1.2	2.1	.4	.0	.0			3.7	9.3	4.2	4.6	3.1	3.1	
SE	1.4	2.4	.8	.1	.0			4.8	11.3	5.8	3.8	4.8	4.4	
S	2.8	3.3	2.6	.7	.3			11.6	13.6	13.3	13.2	10.8	7.7	
SW	3.2	8.3	3.7	1.2	.3			18.6	13.0	13.7	13.3	11.3	21.6	
W	3.0	7.3	3.4	1.1	.3			13.2	13.9	12.6	13.2	16.3	18.1	
NW	3.4	9.0	3.9	.8	.0			17.0	12.9	17.9	16.0	18.2	13.0	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	3.3							3.3	.0	3.2	4.1	2.7	7.0	
TOT OBS	383	1092	572	123	18	2388			12.9	534	464	819	471	
TOT PCT	24.4	49.7	24.0	3.2	.8			100.0		100.0	100.0	100.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1900-1976
(OVER-ALL) 1971-1976

TABLE 4

AREA 0014 RAMSON
43.75 61.9W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT PREC	TOTAL OBS
				11-21	22-33	34-47				
0000Z	5.2	6.2	39.9	39.1	8.0	1.1	.5	11.6	100.0	634
0600Z	6.4	5.4	32.8	38.1	13.4	1.7	.2	13.0	100.0	464
1200Z	2.7	5.1	39.6	40.5	14.9	2.8	.4	14.0	100.0	819
1800Z	7.0	3.0	36.3	42.7	10.0	.8	.2	12.4	100.0	471
TOT	127	120	851	958	282	42	8	12.9		1388
PCT	5.3	5.0	35.6	40.1	11.8	1.8	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.4	4.9	6.0	1.2		3.5
NE	3.1	2.8	3.4	.6		3.7
E	1.2	1.5	1.6	.2		3.9
SE	.8	1.2	1.8	.3		4.2
S	3.8	3.4	9.0	1.2		4.1
SW	7.9	5.7	6.6	1.5		3.6
W	4.0	2.4	2.9	.9		3.6
NW	3.0	3.1	3.1	.9		3.8
VAR	.0	.0	.0	.0		.0
CALM	8.1	1.9	2.0	.7	1037	3.4
TOT OBS	388	272	334	74		3.7
TOT PCT	34.2	26.8	32.4	7.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.1	.1	1.0	2.7	.5	.1	.4	.5	13.6	
NE	.0	.0	.0	.0	.4	.8	.6	.1	.4	.5	7.1	
E	.1	.0	.0	.0	.4	.6	.1	.2	.0	.2	2.7	
SE	.0	.0	.0	.0	.2	.5	.3	.1	.0	.0	3.1	
S	.2	.0	.0	.3	.9	1.9	.4	.5	.3	.5	8.3	
SW	.0	.1	.0	.1	.9	3.2	1.5	.0	.4	.1	13.2	
W	.0	.0	.0	.0	.5	1.6	.4	.0	.0	.1	7.6	
NW	.0	.0	.0	.1	.5	1.0	.7	.1	.2	.1	7.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.5	.9	.9	.1	.0	.2	5.7	
TOT OBS	7	2	1	7	32	134	45	12	19	22	734	1037
TOT PCT	.7	.2	.1	.7	5.0	13.1	4.5	1.2	1.8	2.1	70.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR 3000	3.3	3.6	3.9	3.9	3.9	3.9	3.9	3.9
>OR 2000	4.3	4.8	5.0	5.0	5.0	5.0	5.0	5.0
>OR 1500	8.8	9.3	9.6	9.6	9.6	9.6	9.6	9.6
>OR 1000	18.8	22.1	22.8	22.8	22.8	22.8	22.8	22.8
>OR 500	22.3	26.9	27.7	27.7	27.7	27.7	27.7	27.7
>OR 300	23.0	27.4	28.4	28.4	28.4	28.4	28.4	28.4
>OR 150	23.0	27.5	28.3	28.3	28.3	28.3	28.3	28.3
>OR 50	23.1	27.6	28.6	28.6	28.6	28.6	28.6	28.7
>OR 0	23.2	27.9	29.0	29.0	29.1	29.1	29.2	29.3
TOTAL	244	293	303	303	306	306	307	308

TOTAL NUMBER OF OBS: 1050

PCT FREQ NM <5/8: 70.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	10	TOTAL OBS
28.5	7.4	15.3	12.4	9.3	8.6	8.6	6.3	5.8	.4		1053

PERIOD: (PRIMARY) 1908-1976
(OVE -ALL) 1871-1976

JANUARY

AREA 0014 RANSON
43.75 61.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NONOCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT S	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.2	.0	.1	.2	.0	.0	.5	.5
	NO PCP	.6	.3	.1	.2	.2	.1	.2	.2	.0	.3	2.1	2.1
	TOT S	.6	.3	.1	.2	.3	.1	.3	.4	.0	.3	2.6	2.6
5<10	PCP	.0	.1	.0	.1	.1	.3	.0	.0	.0	.0	.7	.7
	NO PCP	4.8	1.2	.9	.6	1.9	1.7	1.3	.7	.0	1.0	13.1	13.1
	TOT S	4.8	1.3	.9	.6	1.4	1.9	1.3	.7	.0	1.2	13.8	13.8
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.7	8.7	3.7	3.3	10.6	19.6	9.3	8.9	.0	6.3	83.3	83.3
	TOT S	12.7	8.7	3.7	3.3	10.6	19.6	9.3	8.9	.0	6.3	83.3	83.3
TOT OBS													1207
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT PCT	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT PCT	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.1	.2	.0	.1	.2	.0	.3	.3	.3
	11-21	.1	.2	.0	.1	.2	.1	.2	.1	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.6	.3	.1	.2	.3	.1	.3	.3	.0	.3	2.4	2.4
	TOT PCT	.6	.3	.1	.2	.3	.1	.3	.3	.0	.3	2.4	2.4
5<10	0-3	.0	.0	.0	.1	.1	.0	.0	.0	.0	1.1	1.3	1.3
	4-10	1.0	.3	.3	.1	.9	.5	.1	.2	.0	.0	3.0	3.0
	11-21	2.0	.8	.3	.5	.3	1.1	.9	.4	.0	.0	6.2	6.2
	22+	1.8	.2	.0	.0	.1	.2	.3	.1	.0	.0	2.6	2.6
	TOT S	4.8	1.4	.6	.7	1.3	1.8	1.3	.7	.0	1.1	13.7	13.7
	TOT PCT	4.8	1.4	.6	.7	1.3	1.8	1.3	.7	.0	1.1	13.7	13.7
10+	0-3	.1	.2	.1	.1	.2	.3	.0	.2	.0	6.2	7.5	7.5
	4-10	1.9	4.1	2.2	1.7	4.3	7.0	4.0	4.5	.0	.0	31.8	31.8
	11-21	3.9	4.2	1.1	1.4	3.7	9.4	4.6	4.2	.0	.0	36.3	36.3
	22+	2.6	.0	.2	.0	.8	3.4	.7	.4	.0	.0	7.7	7.7
	TOT S	12.4	8.5	3.6	3.3	10.7	20.1	9.3	9.3	.0	6.2	43.3	43.3
	TOT PCT	12.4	8.5	3.6	3.3	10.7	20.1	9.3	9.3	.0	6.2	43.3	43.3
TOT OBS													1268
TOT PCT													100.0

PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

JANUARY

AREA 0014 RAMSON
42.75 61.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.3	3.8	10.3	4.5	1.0	2.4	2.1	32.4	67.6	290
06009	2.5	.0	.5	1.0	7.0	12.0	3.5	1.0	.5	2.5	30.5	69.5	200
12015	.0	.7	.0	.7	4.6	12.5	4.9	2.0	2.0	1.3	28.6	71.4	304
18021	.7	.0	.0	.7	4.6	8.9	4.6	.4	1.8	2.5	24.1	75.9	282
TOT	7	2	1	7	32	140	48	12	19	22	310	766	1076
PCT	.7	.2	.1	.7	4.0	13.0	4.3	1.1	1.8	2.0	38.8	71.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-4	5-10	10+	TOTAL OBS
00003	.3	.0	.0	1.2	11.1	87.3	324
06009	.0	.0	.0	3.7	23.8	70.3	298
12015	.3	.0	.0	3.3	12.8	84.7	382
18021	.3	.3	.0	1.0	7.3	91.1	313
TOT	3	1	0	32	175	1076	1287
PCT	.2	.1	.0	2.5	13.6	83.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	1.7	31.0	67.6	287
06009	2.7	3.2	8.0	26.7	69.2	187
12015	.3	.7	3.7	26.9	69.4	297
18021	.7	.7	1.8	22.6	75.6	279
TOT	8	10	36	282	732	1050
PCT	.3	1.0	3.4	26.9	69.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.7	.0	1	.7
65/69	.0	.0	.0	1.4	.0	3.6	1.4	2.1	12	8.6
60/64	.0	.0	.0	1.4	11.4	11.4	20.7	8.6	73	55.6
55/59	.0	.0	.0	1.4	6.4	4.3	9.3	6.4	39	27.9
50/54	.0	.0	.0	.0	.7	3.6	2.1	2.9	13	9.3
TOTAL	0	0	0	6	24	32	48	28	140	100.0
PCT	.0	.0	.0	4.3	16.9	22.9	34.3	20.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
65/69	.0	.0	.0	.0	1.1	.4	.7	.0	.0	.0
60/64	.0	3.0	3.0	.9	3.8	10.9	12.7	8.0	.0	.7
55/59	.0	2.3	.0	1.6	3.4	2.0	4.3	3.9	.0	2.1
50/54	1.3	.2	.7	.0	1.1	3.2	.7	1.4	.0	.7
TOTAL	18.6	8.0	6.3	2.5	11.3	17.1	18.4	14.3	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	72	68	61	53	49	48	61.1	631
06009	73	68	67	61	52	48	48	60.2	462
12015	82	73	69	63	54	50	48	61.8	791
18021	82	79	73	63	56	52	50	64.9	449
TOT	82	75	70	62	53	50	48	61.9	2333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.6	20.0	8.6	42.9	20.0	80	35		
06009	.0	.0	6.7	30.0	30.0	13.3	82	30		
12015	.0	.0	22.0	28.8	26.8	24.4	81	41		
18021	.0	7.7	20.3	28.2	23.1	20.3	78	39		
TOT	0	6	26	34	30	29	80	149		

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PERIOD: (PRIMARY) 1908-1976
(OVER-ALL) 1871-1976

TABLE 17

AREA 0014 RANSON
43.78 61.9WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WQ FOG
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6	.0	.5
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	11	.0	.9
11/13	.0	.0	.0	.0	.1	.0	1.8	.8	.3	.0	37	.0	3.1
9/10	.0	.0	.0	.0	1	.0	3	2.9	.4	.1	46	.2	3.6
7/8	.0	.0	.0	.0	.0	3.7	2.7	.2	.0	.0	79	.2	6.3
6	.0	.0	.0	.0	.1	.4	2.9	.3	.0	.0	45	.1	3.7
5	.0	.0	.1	.0	3.3	5.1	.7	.0	.0	.0	111	.2	9.0
4	.0	.0	.2	.2	5.4	5.2	.9	.0	.0	.0	144	.2	11.8
3	.0	.0	.1	.2	4.4	2.0	.2	.0	.0	.0	83	.0	6.9
2	.0	.0	.0	.2	9.4	2.9	.2	.0	.0	.0	153	.2	12.4
1	.0	.0	.2	1.2	5.1	1.0	.1	.0	.0	.0	91	.2	7.4
0	.0	.0	.4	2.0	7.7	.7	.0	.0	.0	.0	130	.2	10.6
-1	.0	.0	.0	2.3	1.4	.2	.0	.0	.0	.0	48	.0	4.0
-2	.0	.1	.0	2.9	1.7	.1	.0	.0	.0	.0	98	.1	4.7
-3	.0	.0	.3	1.7	.2	.0	.0	.0	.0	.0	26	.1	2.1
-4	.0	.0	.3	2.3	.2	.0	.0	.0	.0	.0	35	.1	2.8
-5	.0	.0	1.7	.4	.1	.0	.0	.0	.0	.0	27	.0	2.2
-6	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	5	.0	.4
-7/-8	.0	.1	2.3	.2	.1	.0	.0	.0	.0	.0	33	.1	2.7
-9/-10	.0	.8	.7	.1	.0	.0	.0	.0	.0	.0	19	.0	1.6
-11/-13	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	14	.0	1.2
TOTAL	4	19	84	170	476	290	118	28	12	4	1205	22	118.2
PCT	.3	1.6	7.0	14.1	39.5	24.1	9.8	2.3	1.0	.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.1	.3	.0	.0	.28	.1	.8	.1	.0	.0	.0	1.0
1-2	.0	2.1	.3	.1	.0	.0	2.6	.1	2.1	.8	.0	.0	.0	3.1
3-4	.0	1.9	1.9	.0	.0	.0	3.8	.0	1.4	2.2	.0	.0	.0	3.7
5-6	.0	.4	.4	.0	.0	.0	3.5	.0	.1	1.4	.0	.0	.0	1.8
7	.0	.0	2.2	1.2	.0	.0	3.4	.0	.0	1.4	.1	.0	.0	.5
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.3	1.6	.0	.0	1.9	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.1	1.3	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	8.4	5.8	.0	.0	19.0	.2	4.3	5.4	.3	.0	.0	10.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.1	.0	.0	.0	.0	.0	.7	.2	.4	.0	.0	.0	.0	.6
1-2	.1	1.3	.1	.0	.0	.0	1.4	.0	.9	.8	.0	.0	.0	1.6
3-4	.0	.3	.7	.2	.0	.0	1.4	.0	.3	.4	.0	.0	.0	.6
5-6	.0	.1	.3	.0	.0	.0	1.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	1.2	.2	.0	.0	4.0	.3	.6	1.8	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0014 RAWSON
43.75 61.9M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.4	1.3	.1	.0	.0	.0	2.1
1-2	.1	2.1	.9	.0	.0	.0	3.1	.0	2.6	1.1	.0	.0	.0	3.6
3-4	.0	1.4	1.8	.0	.0	.0	3.1	.0	1.6	2.6	.0	.0	.0	4.2
5-6	.0	.1	1.7	.0	.0	.0	.7	.0	.4	2.4	.4	.0	.0	3.2
7	.0	.0	1.7	.1	.0	.0	1.8	.0	.1	2.9	.3	.0	.0	3.3
8-9	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.8	1.3	.0	.0	2.1
10-11	.0	.0	.2	.3	.0	.0	.3	.0	.0	.8	1.1	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3
13-16	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.4	.1	.0	.6
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	8.3	.4	.1	.0	12.0	.4	6.2	10.8	3.9	.1	.0	21.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.7	.1	.0	.0	.0	.8	.1	1.3	.0	.0	.0	.0	1.4	
1-2	.0	1.3	.4	.0	.0	.0	1.9	.0	1.7	.3	.0	.0	.0	2.2	
3-4	.0	.9	1.9	.0	.0	.0	2.9	.0	1.3	1.7	.1	.0	.0	3.3	
5-6	.0	.6	.9	.3	.0	.0	1.3	.0	.0	1.2	.0	.0	.0	1.2	
7	.0	.0	.9	.4	.0	.0	1.3	.0	.0	1.0	.3	.0	.0	1.2	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.1	.1	.1	.0	.3	.0	.0	.2	.2	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.7	4.3	1.0	.1	.0	9.1	.1	4.3	4.8	.5	.0	.0	10.0	89.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.3	7.7	.4	.0	.0	.0	19.2	
1-2	.3	14.2	4.9	.0	.0	.0	19.4	
3-4	.0	9.7	13.1	.3	.0	.0	23.1	
5-6	.0	1.8	9.9	1.1	.0	.0	12.8	
7	.0	.1	9.4	2.6	.0	.0	12.1	
8-9	.0	.0	3.3	1.8	.0	.0	5.1	
10-11	.0	.0	1.7	3.3	.1	.0	5.1	
12	.0	.0	.8	1.6	.0	.0	1.9	
13-16	.0	.0	.1	1.1	.1	.0	1.3	
17-19	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	33.0	43.1	11.8	.3	.0	100.0	901

PERIOD: (OVER-ALL) 1950-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	11.0	17.2	8.2	3.6	1.3	1.8	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	484	4
6-7	.0	.4	4.3	4.9	8.8	3.1	2.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	284	6
8-9	.0	.0	.7	.9	1.6	.6	.8	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	8
10-11	.0	.0	.1	.1	.2	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
12-13	.0	.0	3.5	1.5	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	5
14-15	.0	.0	.0	.8	.9	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	3
INDEX	9.4	2.1	1.7	1.3	1.7	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	3
TOTAL	66	162	288	131	183	84	63	19	13	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1040	5
PCT	6.3	15.6	27.7	17.4	17.6	6.2	6.1	1.8	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1907-1975
(OVC ALL) 1871-1975

AREA 0014 RANSON
43.55 61.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.6	.0	.0	.0	.0	.0	.0	.6	.5	.0	5.0	.0	1.3	.0	92.6
NE	.0	.0	1.8	.0	.0	.0	.0	1.8	1.8	.0	4.0	.0	.0	.0	92.4
E	4.2	.0	.0	.0	.0	.0	.0	4.2	6.3	4.2	4.2	.0	.0	.0	79.2
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	.0	.0	.0	94.0
S	.0	1.4	.0	.0	.0	.0	.0	1.4	2.8	.0	.0	.0	.0	.0	93.8
SW	.0	1.6	.0	.0	.0	.0	.0	1.6	1.6	.0	1.2	.0	.0	.0	94.9
W	1.4	1.4	.0	.0	.0	.0	.0	2.7	.0	1.4	.9	.0	.0	.0	93.9
NW	.9	.9	.0	.0	.0	.0	.0	1.0	.2	.9	2.8	.0	.0	.0	93.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.6	.7	.1	.0	.0	.0	.0	1.5	1.2	.4	2.9	.0	.4	.0	94.2
TOT OBS:	685														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGS NO PCPN	FGS NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	1.2	1.2	.0	.0	.0	.0	.0	2.3	1.2	1.2	3.5	.0	.6	.0	91.8
0600Z	1.3	.6	.6	.0	.0	.0	.0	2.6	.6	.6	1.3	.0	.0	.0	94.9
1201Z	.0	.6	.0	.0	.0	.0	.0	.6	1.1	.0	2.8	.0	1.1	.0	94.3
1802Z	.0	.9	.0	.0	.0	.0	.0	.9	1.6	.0	2.2	.0	.0	.0	93.6
TOT PCT TOT OBS	.6 690	.7	.1	.0	.0	.0	.0	1.4	1.2	.4	2.5	.0	.4	.0	94.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15
N	1.1	3.4	7.8	2.5	.3	.0		17.2	14.1	19.3	13.7	20.0	17.8	13.8	14.0	17.3
NE	1.1	3.3	2.9	.4	.1	.0		7.7	10.7	7.7	8.2	11.2	5.6	7.2	8.6	6.9
E	.7	2.4	1.4	.1	.0	.0		4.6	8.6	3.4	6.1	3.4	3.1	3.4	5.0	2.9
SE	.7	2.1	2.2	1.1	.3	.1		6.3	13.9	8.3	9.3	1.3	6.2	4.3	6.2	2.0
S	.4	4.2	3.7	2.3	.4	.0		10.9	15.0	14.8	9.4	4.3	9.1	9.7	10.1	13.1
SW	.6	3.9	4.6	3.6	1.2	.2		10.3	16.3	13.6	13.8	16.7	13.5	21.3	20.4	18.4
W	.8	3.4	3.1	3.4	.4	.1		13.1	13.1	11.2	13.3	13.6	10.9	19.2	16.3	14.8
NW	.7	6.2	7.0	2.4	.3	.0		16.3	14.0	12.9	17.3	17.7	16.8	16.7	18.2	13.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	4.7	4.8	3.6	4.1	2.0	1.5	4.7
TOT OBS	184	681	714	309	34	6	1948		13.8	341	188	188	193	332	340	171
TOT PCT	9.4	35.0	36.7	15.9	2.8	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	03	09	15
N	2.9	8.0	3.4	.8	.0		17.2	14.1	18.1	21.6	14.9	15.3	15.9
NE	2.8	3.3	1.4	.2	.0		7.7	10.7	7.9	8.2	7.8	5.9	5.9
E	1.9	2.4	.3	.0	.0		4.6	8.6	3.6	4.3	4.2	4.0	4.0
SE	2.0	1.9	1.8	.3	.1		6.3	13.9	8.8	3.9	4.3	4.3	4.3
S	2.4	4.1	3.4	.9	.2		10.9	15.0	12.7	7.0	9.9	14.4	14.4
SW	2.7	7.9	3.1	2.1	.7		18.3	16.3	13.7	16.0	21.0	20.3	20.3
W	3.0	6.1	4.0	1.9	.1		13.1	13.1	12.0	16.3	14.6	13.3	13.3
NW	3.0	7.6	4.6	1.3	.4		16.3	14.0	14.3	18.7	17.6	17.6	17.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	4.7	3.9	1.7	1.3	1.3
TOT OBS	465	806	305	132	20	1948		13.8	329	363	652	260	260
TOT PCT	23.9	41.4	25.9	7.0	1.0		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

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AREA 0014 RAMSON
43.88 61.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALN	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	4.7	6.6	36.7	36.7	12.1	2.8	.4	13.0	100.0	329
0400Z	3.9	6.6	36.6	33.6	16.0	2.5	.8	13.6	100.0	363
1201Z	1.7	6.1	32.5	37.1	18.9	3.5	.1	14.6	100.0	492
1802Z	3.3	5.3	35.4	38.7	13.4	1.6	.0	13.3	100.0	364
TOT	63	121	481	714	309	54	6	13.8		1948
PCT	3.2	6.2	35.0	36.7	15.9	2.8	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.1	6.0	5.6	1.7		3.3
NE	1.3	3.3	2.9	1.3		4.5
E	.8	.0	1.4	.5		4.7
SE	.6	.4	1.2	.2		4.3
S	2.3	2.9	5.7	.3		4.2
SW	3.3	6.0	6.0	1.3		3.8
W	3.7	3.9	4.0	1.1		3.5
NW	3.3	3.8	2.6	1.0		3.3
VAR	.0	.0	.0	.0		.0
CALN	2.0	.7	1.0	.7		2.7
TOT OBS	184	184	181	44	596	3.7
TOT PCT	31.2	30.9	30.4	7.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 799	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY MGT	TOTAL OBS
N	.3	.0	.0	.2	.7	1.9	.5	.0	.7	.3	16.8	
NE	.0	.0	.2	.0	1.3	.3	.0	.0	.3	.0	6.3	
E	.2	.0	.0	.0	.3	.4	.1	.0	.0	.0	1.3	
SE	.2	.0	.0	.2	.3	.4	.1	.0	.0	.0	1.0	
S	.0	.0	.7	.0	2.0	1.4	.5	.3	.0	.0	6.3	
SW	.0	.0	.0	.2	2.6	1.3	.0	.2	.0	.0	13.8	
W	.0	.0	.0	.1	1.7	1.4	.0	.3	.0	.0	12.7	
NW	.2	.0	.0	.0	.8	1.1	.0	.0	.0	.0	12.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALN	.0	.0	.0	.0	.0	.2	.0	.0	.3	.2	3.0	
TOT OBS	5	0	2	4	62	33	11	2	12	3	440	
TOT PCT	.8	.0	.3	.7	10.4	9.2	1.4	.3	2.0	.9	73.8	396 100%

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>0.05	>0
> OR >5000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
> OR >4000	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
> OR >3500	3.9	4.4	4.7	4.7	4.7	4.7	4.7	4.7
> OR >3000	11.3	13.2	13.8	13.8	13.8	13.8	13.8	13.8
> OR >2500	17.9	23.1	24.3	24.3	24.3	24.3	24.3	24.3
> OR >2000	18.2	23.8	23.1	23.1	23.1	23.1	23.1	23.1
> OR >1500	18.2	23.9	23.3	23.3	23.3	23.3	23.3	23.3
> OR >1000	18.2	23.9	23.3	23.3	23.3	23.3	23.3	23.3
> OR >500	18.2	23.9	23.3	23.3	23.3	23.3	23.3	23.3
> OR >0	18.2	24.3	23.8	23.8	23.8	23.8	23.8	23.8
TOTAL	108	144	133	133	133	133	133	133

TOTAL NUMBER OF OBS: 593

PCT FREQ NM <5/8: 73.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
26.2	9.1	15.6	16.0	10.4	7.9	8.4	4.3	3.4	.8	608

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 PERIOD: (PRIMARY) 1967-1975
 (OVER-ALL) 1971-1975

 AREA 0014 RAWSON
 42.88 61.1W

TABLE 8

 PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
 PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	C&LH	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	1.0	.6	.3	.2	.1	.4	.1	.6	.0	.1	3.5	3.5	
	TOT %	1.0	.7	.3	.2	.1	.6	.3	.6	.0	.1	4.0	4.0	
5<10	PCP	.1	.0	.1	.0	.1	.1	.3	.1	.0	.0	1.0	1.0	
	NO PCP	6.7	1.6	1.0	.8	1.3	2.1	1.9	2.7	.0	.4	18.7	18.7	
	TOT %	6.9	1.6	1.1	.8	1.4	2.2	2.2	2.9	.0	.4	19.8	19.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	14.4	3.9	2.0	1.3	8.6	15.6	13.3	11.2	.0	2.9	73.4	73.4	
	TOT %	14.4	3.9	2.0	1.3	8.6	15.6	13.3	11.2	.0	2.9	73.4	73.4	
TOT OBS														683
TOT PCT		22.6	8.2	3.5	2.5	10.4	18.3	16.1	14.7	.0	3.5	100.0		

TABLE 9

 PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
 WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	.3	
	11-21	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.1	.2	.1	.0	.0	.0	.0	.0	.7	.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1	
	22+	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	
	4-10	.3	.1	.1	.1	.0	.2	.2	.3	.0	.0	1.4	1.4	
	11-21	.8	.4	.1	.0	.0	.3	.1	.1	.0	.0	1.9	1.9	
	22+	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.4	.4	
	TOT %	1.1	.7	.2	.2	.1	.6	.3	.6	.0	.1	4.0	4.0	
5<10	0-3	.1	.1	.1	.0	.0	.0	.0	.1	.0	.4	1.0	1.0	
	4-10	1.3	.4	.6	.3	.4	1.1	.8	.7	.0	.0	3.8	3.8	
	11-21	3.4	.3	.2	.3	.3	.7	1.1	1.3	.0	.0	8.1	8.1	
	22+	1.7	.4	.1	.0	.9	.8	.8	.6	.0	.0	3.2	3.2	
	TOT %	6.6	1.3	1.1	.6	1.6	2.6	2.6	2.7	.0	.4	20.1	20.1	
10+	0-3	.2	.4	.0	.0	.0	.6	.4	.2	.0	3.0	3.0	3.0	
	4-10	4.7	2.6	1.0	.9	3.7	3.9	3.3	4.0	.0	.0	24.1	24.1	
	11-21	7.2	2.7	1.1	.5	3.0	6.4	4.8	6.3	.0	.0	31.8	31.8	
	22+	2.2	.2	.0	.2	2.1	4.3	4.3	.8	.0	.0	14.2	14.2	
	TOT %	14.4	3.9	2.1	1.4	8.6	19.1	12.9	11.9	.0	3.0	73.0	73.0	
TOT OBS														727
TOT PCT		22.3	8.1	3.6	2.6	10.8	18.4	16.0	14.6	.0	3.6	100.0		

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PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

AREA 0014 RAMSON
43.85 61.14

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	1.3	.0	1.3	1.3	11.2	11.2	2.0	.0	3.9	.7	32.9	67.1	152
0600	.9	.0	.0	.0	10.4	7.8	1.7	.0	.0	.0	20.9	79.1	115
1200	1.2	.0	.0	1.2	9.6	10.8	.6	.0	1.2	.6	25.3	74.7	166
1800	.0	.0	.0	.0	10.7	6.5	3.0	1.2	2.4	.6	24.3	75.7	169
TOT	3	0	2	4	63	35	11	2	12	3	137	445	602
PCT	.8	.0	.3	.7	10.3	9.1	1.8	.3	2.0	.5	26.1	79.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.1	.0	.0	1.3	19.7	67.8	103
0600	.0	.0	.0	1.8	33.7	65.8	103
1200	1.3	.0	.0	1.3	16.3	40.6	196
1800	.0	.3	.0	1.0	13.5	84.9	192
TOT	3	2	0	29	149	349	734
PCT	.7	.3	.0	4.0	20.3	74.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	1.3	2.6	13.2	26.5	58.3	151
0600	.9	.9	3.8	18.2	78.2	110
1200	1.2	1.2	3.7	22.6	73.8	166
1800	.0	.0	1.2	23.8	75.0	168
TOT	3	7	35	137	421	593
PCT	.8	1.2	5.9	23.1	71.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.6	.6	.0	.0	2	1.3
65/69	.0	.0	.0	.0	3.2	6.3	5.7	2.3	28	17.7
60/64	.0	.0	1.3	3.8	9.1	10.1	13.3	8.2	66	41.8
55/59	.0	.0	.0	1.9	9.8	9.3	10.1	9.7	49	31.0
50/54	.0	.0	.0	.6	1.9	2.3	2.3	1.3	13	8.2
TOTAL	0	0	2	10	23	46	30	28	138	100.0
PCT	.0	.0	1.3	6.3	13.9	29.1	31.6	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.3	.0	.0	.0	.0	.0	.0	.9	.0	.0
65/69	3.3	.6	.0	.3	2.1	.8	1.9	6.3	.0	.0
60/64	8.9	2.2	.0	2.1	2.4	6.6	8.3	11.1	.0	.0
55/59	6.3	1.6	1.9	.0	3.8	11.1	2.8	3.3	.0	.0
50/54	.9	.2	.9	.3	1.9	1.6	1.3	1.1	.0	.0
TOTAL	22.0	4.6	2.8	2.7	10.1	20.1	14.6	23.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	78	73	68	59	51	49	47	59.4	920
0600	70	69	67	59	51	49	47	59.3	358
1200	75	71	69	61	55	49	47	60.8	658
1800	81	79	73	63	55	50	49	63.1	342
TOT	81	75	70	60	52	49	47	60.3	1878

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.7	10.0	10.0	27.3	30.0	22.3	80	40		
0600	.0	8.3	12.8	23.8	29.8	29.0	81	31		
1200	.0	8.3	10.4	33.4	33.3	12.3	78	48		
1800	.0	4.3	20.3	31.8	34.1	9.1	76	44		
TOT	0	12	22	50	51	28	78	163		

PERIOD: (PRIMARY) 1907-1975
(OVER-ALL) 1871-1975

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TABLE 17

AREA 0014 RANSON
43.35 61.1W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF POG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 32	53 36	57 40	61 44	65 48	69 52	73 56	77 60	81 64	TOT	N POG	NO POG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.4	.4	.0	6	.0	.9
11/13	.0	.0	.0	.0	.1	.1	1.2	.1	.0	11	.0	1.6
9/10	.0	.0	.0	.0	.1	1.2	1.6	.1	.0	21	.1	2.9
7/8	.0	.0	.1	.9	.9	2.5	.9	.0	.0	36	.1	5.1
6	.0	.0	.0	.0	1.8	2.1	.0	.1	.0	27	.0	4.0
5	.0	.4	.7	.7	3.1	2.3	.0	.0	.0	44	.4	9.0
4	.0	.3	1.0	1.9	5.7	1.2	.0	.0	.0	49	.4	9.7
3	.0	.1	1.2	2.2	3.2	.9	.0	.0	.0	32	.4	7.2
2	.0	.1	.9	5.7	3.8	.1	.0	.0	.0	77	.3	11.0
1	.3	.9	1.0	3.8	2.2	.0	.0	.0	.0	56	.1	8.1
0	.3	.4	1.5	7.2	1.2	.0	.0	.0	.0	72	.3	10.3
-1	.1	1.0	2.1	2.3	.7	.0	.0	.0	.0	44	.0	6.3
-2	.1	.6	2.3	4.4	.0	.0	.0	.0	.0	31	.0	7.3
-3	.0	.6	1.9	.9	.1	.0	.0	.0	.0	24	.0	3.3
-4	.0	.1	1.5	1.8	.0	.0	.0	.0	.0	23	.0	2.4
-5	.0	1.0	1.2	.7	.0	.0	.0	.0	.0	20	.0	2.9
-6	.0	.3	.1	.1	.0	.0	.0	.0	.0	4	.0	.6
-7/-8	.1	.9	.1	.0	.0	.0	.0	.0	.0	8	.0	1.2
-9/-10	.6	.4	.4	.0	.0	.0	.0	.0	.0	10	.0	1.3
-11/-13	.1	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	16	32	110	171	71	29	7	1		481	2.9	97.7
PCT	2.3	7.6	16.2	32.9	25.1	10.4	4.3	1.0	.1	100.0		

PERIOD: (OVER-ALL) 1903-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	1.1	.0	.0	.0	.0	1.3	.2	.5	.0	.0	.0	.0	.0	1.0
1-2	.0	3.1	.9	.0	.0	.0	4.1	.0	1.7	.1	.0	.0	.0	.0	1.7
3-4	.0	1.7	2.8	.0	.0	.0	4.1	.0	.7	1.7	.0	.0	.0	.0	2.3
5-6	.0	.3	2.6	.2	.0	.0	3.1	.0	.0	1.8	.3	.0	.0	.0	1.9
7	.0	.0	3.7	.9	.0	.0	6.3	.0	.0	.5	.2	.0	.0	.0	.7
8-9	.0	.0	.0	1.2	.0	.0	1.8	.0	.0	.0	.3	.0	.0	.0	.2
10-11	.0	.0	.0	1.4	.0	.0	2.3	.0	.0	.2	.0	.0	.0	.0	.2
12	.0	.0	.0	.5	.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	6.2	11.0	4.9	.0	.0	22.3	.3	2.9	3.9	1.2	.0	.0	.0	8.3

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.2	.0	.0	.0	.0	.2	.0	.5	.0	.0	.0	.0	.0	.2
1-2	.0	.7	.6	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.7
3-4	.0	.0	.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.3	.0	.0	.0	2.2	.0	.7	.6	.3	.1	.0	.0	1.7

PERIOD: (OVER-ALL) 1963-1975

FEBRUARY

AREA 0014 RANSON
43.35 61.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.4	.0	.0	.0	.0	.4	.7	.4	.0	.0	.0	.0	1.3
1-2	.0	.9	.0	.0	.0	.0	.9	.2	2.0	.9	.0	.0	.0	3.1
3-4	.0	1.0	.6	.0	.0	.0	1.3	.0	1.1	1.9	.0	.0	.0	3.0
5-6	.0	.2	1.0	.8	.0	.0	2.1	.0	.7	2.7	.8	.0	.0	4.2
7	.0	.2	.9	1.0	.0	.0	2.0	.0	.1	1.0	.4	.0	.0	1.5
8-9	.0	.0	1.2	.4	.0	.0	1.6	.0	.0	.6	2.3	.0	.0	3.0
10-11	.0	.2	.0	.3	.0	.0	1.7	.0	.0	.2	1.1	.0	.0	1.3
12	.0	.0	.0	.2	.0	.0	.4	.0	.0	.2	.7	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.7	3.9	.2	.0	10.5	1.0	4.4	7.4	3.8	.2	.0	18.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.2	.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	1.2	.4	.0	.0	.0	2.0	.0	2.8	1.3	.0	.0	.0	3.8	.0
3-4	.0	.7	1.1	.2	.0	.0	2.0	.0	.6	2.2	.0	.0	.0	2.8	.0
5-6	.0	.0	1.9	.8	.0	.0	2.7	.0	.3	1.9	.0	.0	.0	2.3	.0
7	.0	.0	2.1	.5	.0	.0	2.6	.0	.0	2.6	.3	.0	.0	3.1	.0
8-9	.7	.0	1.0	1.4	.0	.0	2.8	.0	.0	.7	.9	.0	.0	1.3	.0
10-11	.4	.0	.9	2.3	.2	.0	3.0	.0	.0	.0	.3	.0	.0	.3	.0
12	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.3	.0	.0	.3	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.1	7.2	6.8	.2	.0	18.8	.0	3.8	8.6	1.8	.0	.0	14.1	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	0.9	3.2	.0	.0	.0	.0	10.1	
1-2	.3	12.6	4.3	.0	.0	.0	17.4	
3-4	.0	9.7	10.3	.2	.0	.0	19.2	
5-6	.0	1.6	12.1	3.2	.0	.0	16.9	
7	.0	.2	11.0	3.4	.0	.0	14.6	
8-9	.0	.0	4.1	6.6	.0	.0	10.6	
10-11	.0	.2	1.8	6.6	.2	.0	8.9	
12	.0	.0	.0	2.9	.2	.0	2.7	
13-16	.0	.0	.0	1.8	.0	.0	1.8	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	23.6	43.7	24.7	.7	.0	100.0	437

PERIOD: (OVER-ALL) 1951-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-7	.4	7.3	12.8	8.4	3.4	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
8-9	.0	1.3	3.2	4.7	8.1	7.1	3.8	1.9	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	175	7
10-11	.0	.0	1.7	2.1	1.3	1.3	.6	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
12-13	.0	.0	.0	.2	.8	.2	.4	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	10	11
13-19	.0	.0	.4	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
19-23	.0	.0	.0	.2	.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
23-25	2.4	2.6	3.4	3.8	3.2	1.3	1.3	.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	5
TOTAL	13	60	114	104	103	58	48	13	9	3	1	0	0	1	0	0	0	0	0	333	6
PCT	2.6	11.3	21.4	19.3	19.7	10.9	9.0	2.8	1.7	.6	.2	.0	.0	.2	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

MARCH

AREA 0014 RAMSON
43.55 60.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY PLUG BLWG	DUST SNOW	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	3.5	.0	.0	91.7
NE	.0	5.0	2.5	.0	.0	.0	.0	7.5	2.5	.0	3.1	.0	3.1	.0	.0	83.6
E	15.8	.0	.0	.0	.0	.0	.0	15.8	.0	6.3	18.8	.0	.0	.0	.0	59.4
SE	15.5	.0	.0	.0	.0	.0	.0	15.5	4.1	2.1	8.2	.0	.0	.0	.0	70.1
S	1.3	.0	3.4	.0	.0	.0	.0	4.7	3.4	.9	5.6	1.7	.0	.0	.0	83.8
SW	.0	3.8	1.3	.0	.0	.0	.0	5.1	2.6	2.6	2.2	.0	.0	.0	.0	87.3
W	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	.0	1.8	.0	3.2	.0	.0	91.4
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.9	.0	.0	94.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	94.4
TOT PCT	2.0	1.1	1.1	.0	.0	.0	.0	4.2	1.3	.9	4.4	.2	1.6	.0	.0	87.4
TOT OBS:	491															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00103	2.5	.0	.0	.0	.0	.0	.0	3.4	.0	3.4	3.0	.0	.0	.0	37.4
06109	2.8	1.9	1.9	.0	.0	.0	.0	6.3	1.9	.9	5.6	.0	.0	.0	83.2
12113	2.7	1.8	.0	.0	.0	.0	.0	4.5	.9	.0	3.8	.0	3.8	.0	87.5
18121	.0	.0	1.6	.0	.0	.0	.0	2.4	2.4	.0	3.2	.8	2.4	.0	88.8
TOT PCT TOT OBS:	1.9	1.1	1.1	.0	.0	.0	.0	4.1	1.3	1.1	4.3	.2	1.7	.0	87.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	6.8	8.2	3.9	.1	.0		19.6	13.1		19.5	20.8	23.8	22.1	19.2	17.6	18.3	18.0
NE	1.0	3.8	2.7	.3	.1	.0		8.1	10.2		8.6	11.0	10.7	7.9	5.9	7.3	9.7	8.7
E	.0	1.8	1.0	.2	.0	.0		3.3	9.8		3.6	5.4	1.1	4.6	2.6	2.6	3.4	3.9
SE	.9	2.8	2.7	.4	.1	.0		6.4	11.3		5.8	5.1	4.5	3.0	6.8	.6	2.1	9.9
S	1.1	3.8	4.1	1.8	.4	.1		11.2	14.3		12.1	7.7	11.0	10.3	12.8	11.8	13.8	10.8
SW	1.2	4.4	3.9	3.1	1.0	.2		13.8	18.3		14.3	15.4	22.3	12.6	18.0	18.8	17.9	16.4
W	1.4	4.8	8.1	2.0	.6	.1		13.0	14.4		13.7	12.1	9.6	12.3	14.9	20.0	22.9	14.9
NW	1.3	4.5	7.7	2.4	.3	.0		16.7	14.0		17.4	20.3	13.2	20.8	18.1	14.3	10.3	13.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0		4.8	2.2	3.4	4.2	3.6	2.3	5.3	4.3
TOT OBS	230	614	710	250	49	8	1861		13.2		311	231	89	239	303	347	109	232
TOT PCT	12.4	32.0	38.2	13.4	2.6	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	4.4	8.3	5.9	.8	.0			19.6	13.1		20.1	23.1	18.3
NE	3.0	3.3	1.4	.2	.0			8.1	10.2		9.6	8.7	6.7
E	1.4	1.6	.5	.1	.0			3.3	9.8		4.4	3.7	2.6
SE	1.9	3.0	1.3	.5	.0			6.4	11.3		5.8	4.9	7.3
S	2.3	4.2	3.3	1.1	.1			11.2	14.3		10.2	10.6	12.1
SW	3.0	5.5	5.0	1.6	.7			13.8	18.3		14.6	13.2	16.4
W	3.5	5.7	4.3	1.0	.4			13.0	14.4		13.1	10.6	17.6
NW	3.4	6.6	5.8	.7	.1			16.7	14.0		18.7	19.3	16.1
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0
CALM	3.7							3.7	.0		3.7	4.0	2.9
TOT OBS	498	720	513	104	28	1861			13.2		342	328	630
TOT PCT	26.8	38.7	27.6	5.6	1.4			100.0			100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

MARCH

APEA 0014 RAMSON
43.55 60.74

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	3.7	10.5	33.8	37.6	12.0	2.2	.2	12.3	100.0	342
0600	4.0	10.1	29.3	40.9	12.3	3.0	.3	13.4	100.0	328
1200	2.9	7.4	34.8	34.8	16.6	2.6	.9	13.8	100.0	630
1800	4.7	7.0	32.0	42.8	10.6	2.9	.0	13.0	100.0	341
TOT	68	102	614	710	750	49	8	13.2		1861
PCT	3.7	8.7	33.0	38.2	13.4	2.6	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.2	3.7	3.6	2.1		2.9
NE	4.6	.7	.3	2.0		2.9
E	.4	.0	1.0	.6		3.3
SE	1.0	.2	.7	1.5		3.1
S	3.0	3.2	4.7	3.7		3.0
SW	5.7	7.9	4.3	2.4		3.8
W	9.5	3.5	1.4	.7		1.9
NW	9.1	2.5	.8	.4		1.6
VAR	.0	.0	.0	.0		.0
CALM	2.2	1.1	.7	.7		3.3
TOT OBS	126	62	49	39	276	3.7
TOT PCT	45.7	22.9	17.8	14.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8 AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.8	.0	.0	.0	.6	1.7	.7	.2	.6	.4	14.6	
NE	.1	.0	.0	.4	.8	.1	.0	.0	.0	.0	6.3	
E	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	1.0	
SE	.4	.0	.0	.5	.4	.0	.4	.0	.0	.0	1.9	
S	.5	.0	.0	.9	2.4	3.3	.4	.0	.0	.0	7.2	
SW	.5	.0	.0	.8	.3	3.3	1.1	.2	.0	.1	13.3	
W	.0	.0	.0	.0	.0	.3	.7	.2	.0	.3	13.7	
NW	.2	.0	.0	.0	.1	.1	.0	.2	.1	.0	12.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	4.0	
TOT OBS	7	0	0	9	16	24	9	2	2	2	203	276
TOT PCT	2.5	.0	.0	3.3	5.8	8.7	3.3	.7	.7	.7	74.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
>3500	3.7	6.0	6.7	6.0	6.0	6.0	6.0	6.0
>2000	11.3	14.1	14.3	14.3	14.3	14.3	14.3	14.3
>1000	18.6	20.1	20.3	20.3	20.3	20.3	20.3	20.3
>600	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>300	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>150	19.4	23.3	23.7	23.7	23.7	23.7	23.7	23.7
>0	19.4	23.7	24.0	24.7	24.7	25.1	25.8	26.1
TOTAL	93	67	68	70	70	71	73	74

TOTAL NUMBER OF OBS: 203

PCT FREQ NM <5/8: 73.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	38.8	6.9	7.2	9.2	8.2	3.0	7.6	4.6	12.3	204

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1853-1971

MARCH

AREA 0014 RAMSON
43.55 80.74

TABLE 8

PERCENT PRES OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.3	.0	.0	.0	.2	.0	.1	.0	.0	1.1	1.1
	TOT S	.5	.3	.0	.0	.0	.2	.0	.1	.0	.0	1.1	1.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.1	.1	.0	.0	.2	.0	.0	.7	.7
	TOT S	.0	.0	.2	.1	.1	.0	.0	.2	.0	.0	.7	.7
142	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.1	.0	.2	.3	.6	.0	.0	.0	.0	1.8	1.8
	TOT S	.6	.1	.0	.2	.3	.6	.0	.0	.0	.0	1.8	1.8
245	PCP	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.7	.7
	NO PCP	1.7	.4	.1	.1	.7	.4	.6	.4	.0	.0	4.5	4.5
	TOT S	1.7	.4	.3	.3	.7	.7	.6	.4	.0	.0	5.1	5.1
9<10	PCP	.0	.2	.2	.5	.2	.2	.0	.0	.0	.2	1.1	1.1
	NO PCP	7.3	1.6	.7	1.1	1.8	3.3	1.0	2.5	.0	1.1	20.0	20.0
	TOT S	7.3	1.8	.9	1.6	2.0	3.5	1.0	2.5	.0	1.3	22.0	22.0
10+	PCP	.0	.4	.1	.1	.4	.4	.4	.0	.0	.0	2.0	2.0
	NO PCP	13.4	3.7	2.0	2.9	9.1	12.0	10.3	9.1	.0	2.7	67.3	67.3
	TOT S	13.4	4.1	2.1	3.0	9.5	12.4	10.7	9.1	.0	2.7	69.3	69.3
TOT OBS													449
TOT PCT		23.4	8.9	3.6	3.3	12.7	17.4	12.3	12.4	.0	4.0	100.0	

TABLE 9

PERCENT PRES OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.2	.0	.1	.0	.0	.3	.3
	11-21	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.8	1.0	.0	.0	.0	.2	.0	.1	.0	.0	2.1	2.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.2	.0	.2	.1	.1	.0	.0	.2	.0	.0	.8	.8
142	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.2	.1	.4	.0	.0	.0	.0	.9	.9
	11-21	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4	.4
	22+	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.6	.6
	TOT S	.7	.1	.1	.3	.3	.4	.0	.0	.0	.0	1.9	1.9
245	0-3	.2	.1	.1	.1	.0	.0	.0	.1	.0	.0	.6	.6
	4-10	1.2	.3	.2	.2	.3	.3	.4	.2	.0	.0	3.0	3.0
	11-21	.3	.1	.0	.0	.1	.2	.2	.2	.0	.0	1.3	1.3
	22+	.0	.2	.2	.0	.3	.2	.2	.0	.0	.0	1.2	1.2
	TOT S	1.9	.7	.3	.3	.4	.8	.8	.5	.0	.0	6.2	6.2
9<10	0-3	.2	.0	.0	.0	.0	.1	.1	.2	.0	1.3	3.1	3.1
	4-10	2.4	.8	.8	.3	1.0	.6	.7	.4	.0	.0	7.2	7.2
	11-21	1.8	.0	.0	.9	1.4	2.6	.4	1.9	.0	.0	9.6	9.6
	22+	1.8	.1	.0	.0	.2	.6	.2	.1	.0	.0	3.0	3.0
	TOT S	6.3	1.0	.8	1.4	2.6	3.8	1.3	3.6	.0	1.3	21.0	21.0
10+	0-3	.4	.7	.3	.0	.6	.6	.3	.0	.0	2.4	5.3	5.3
	4-10	2.8	3.0	.4	1.8	3.3	2.4	2.7	2.8	.0	.0	19.0	19.0
	11-21	6.9	1.0	1.0	1.3	4.6	7.3	7.2	4.8	.0	.0	33.2	33.2
	22+	1.3	.0	.1	.1	2.4	2.3	.9	.4	.0	.0	7.7	7.7
	TOT S	11.4	5.8	1.9	3.2	10.2	12.8	11.4	8.4	.0	2.4	67.2	67.2
TOT OBS													331
TOT PCT		21.2	8.9	3.5	3.2	14.1	18.0	13.3	11.7	.0	3.8	100.0	

MARCH

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1955-1971AREA 0014 RAWSON
43.55 60.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	9000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	5.4	.0	.0	3.6	10.7	3.6	5.4	3.6	.0	.0	32.1	67.9	96
0600	1.7	.0	.0	1.7	5.1	8.3	.0	.0	.0	.0	16.9	83.1	99
1200	.0	.0	.0	5.2	5.2	10.4	3.9	1.3	.0	.0	26.0	74.0	77
1800	3.1	.0	.0	2.1	5.2	9.3	3.1	1.0	2.1	2.1	27.8	72.2	97
TOT	7	0	0	9	18	24	9	4	2	2	75	214	289
PCT	2.4	.0	.0	3.1	6.2	8.3	3.1	1.4	.7	.7	26.0	74.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10+	TOTAL OBS
0000	2.1	.0	9.5	7.1	32.6	54.6	141						
0600	1.7	.0	1.7	7.6	26.9	61.3	119						
1200	1.4	2.1	3.2	5.6	19.3	72.9	144						
1800	2.9	.0	.0	4.3	12.9	80.0	140						
TOT	11	4	11	33	118	347	344						
PCT	2.0	.7	2.0	6.1	21.7	67.5	100.0						

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	5.3	5.3	12.7	21.8	65.3	96
0600	1.7	1.7	6.6	12.1	79.3	99
1200	.0	.0	6.7	21.3	72.0	77
1800	3.2	3.2	5.3	23.2	71.6	97
TOT	7	7	22	57	204	289
PCT	2.5	2.5	7.8	20.1	72.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.4	.0	.0	.0	.0	.0	.0	1	.4
75/79	.0	.0	.0	.7	.0	.0	.0	.0	2	.7
70/74	.0	.0	.0	.7	1.1	.0	.0	.0	3	1.8
65/69	.0	.0	.0	1.1	2.2	1.4	1.4	.4	18	6.3
60/64	.0	.0	.7	.7	2.2	7.6	10.1	6.8	79	28.4
55/59	.0	.0	.0	.4	4.0	6.1	25.4	10.4	123	44.2
50/54	.0	.0	.0	.0	1.4	3.2	7.2	3.0	47	16.9
45/49	.0	.0	.0	.0	.7	.0	.0	.4	3	1.1
TOTAL	0	1	2	10	33	31	117	64	278	100.0
PCT	.0	.4	.7	3.6	11.9	10.3	42.1	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.4	.0	.0	.0
75/79	.0	.0	.0	.0	.4	.4	.0	.0	.0
70/74	.0	.0	.2	.0	.4	.0	.4	.0	.0
65/69	.9	2.0	.4	.4	1.3	.3	1.1	.0	.0
60/64	11.0	1.7	1.2	.5	1.3	6.1	5.6	.0	.7
55/59	10.5	3.8	1.8	4.8	6.4	8.0	3.3	.0	1.8
50/54	2.7	1.6	1.3	1.4	4.3	3.3	.6	.3	1.1
45/49	.0	.0	.0	.3	.8	.0	.0	.0	.0
TOTAL	25.4	9.6	4.8	7.4	11.9	13.3	11.0	13.0	.0
PCT	25.4	9.6	4.8	7.4	11.9	13.3	11.0	13.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	67	64	57	50	49	49	57.2	325
0600	67	65	63	57	50	49	47	57.1	323
1200	80	72	67	59	52	49	44	59.2	398
1800	79	73	69	60	52	50	50	60.0	311
TOT	80	70	66	58	51	49	44	58.4	1757

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	54K	TOTAL OBS
0000	.0	1.2	15.3	13.1	44.0	26.2	83			84
0600	.0	5.0	3.3	23.0	33.0	31.7	83			60
1200	.0	7.7	16.7	19.2	38.5	17.9	79			78
1800	.0	7.3	14.9	14.9	46.3	16.4	80			67
TOT	0	15	38	51	119	66	61			289

PERIOD: (PRIMARY) 1908-1971
(OVER-ALL) 1855-1971

MARCH

AREA 0014 RAWSON
43.85 60.7M

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 57	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.5	.0	3	.0	.7
9/10	.0	.0	.2	.2	.0	.2	.0	.0	3	.2	.5
7/8	.0	.0	.2	.7	1.4	.7	.0	.0	13	.0	3.1
6	.0	.0	.5	.7	.7	.2	.0	.0	9	.2	1.9
5	.2	.5	.5	.9	.9	.5	.0	.0	15	.2	3.3
4	.2	.9	.2	2.6	.7	.0	.0	.0	20	.0	4.7
3	.0	.5	.9	3.1	.7	.0	.0	.0	22	.5	4.7
2	.0	2.4	2.8	5.0	.9	.0	.0	.0	47	.7	10.4
1	.5	1.7	3.5	3.2	1.9	.0	.0	.0	48	.9	10.4
0	.2	1.7	3.5	4.0	.9	.0	.0	.0	43	.7	9.5
-1	.5	1.9	2.6	3.3	.0	.0	.0	.0	35	.5	7.8
-2	.0	3.1	3.5	2.4	.0	.0	.0	.0	38	.0	9.0
-3	.0	3.4	4.5	2.4	.0	.0	.0	.0	39	.0	9.2
-4	.0	1.2	4.0	.9	.2	.0	.0	.0	27	.2	6.1
-5	.2	1.7	1.9	.2	.0	.0	.0	.0	17	.5	3.5
-6	.9	2.1	2.1	.0	.0	.0	.0	.0	20	.0	4.7
-7/-8	1.2	2.1	.2	.0	.0	.0	.0	.0	15	.0	3.5
-9/-10	.7	.5	.5	.0	.0	.0	.0	.0	7	.0	1.7
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	18	96	134	128	84	1.9	.5	.2	423	20	403
PCT	4.3	22.7	31.7	30.3	8.3	1.9	.5	.2	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.4	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.6	2.7	.0	.0	.0	4.3	.0	1.6	.3	.0	.0	.0	1.8
3-4	.0	.4	3.5	.5	.0	.0	4.3	.0	1.0	2.1	.0	.0	.0	3.1
5-6	.0	.0	2.7	1.0	.0	.0	3.8	.0	.0	.1	.1	.0	.0	.3
7	.0	.0	6.7	1.8	.0	.0	8.5	.0	.0	1.3	.3	.0	.0	1.6
8-9	.0	.0	.5	.9	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	16.2	4.3	.0	.0	22.9	.0	2.7	3.8	.4	.0	.0	6.9

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.0	.4	.0	.0	.0	.4	.0	.1	.5	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.3	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.9	.4	.0	.0	1.3	.0	1.2	1.2	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1971

MARCH

AREA 0014 RAMSON
43.55 60.74

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.3	1.2	.0	.0	.0	1.4
3-4	.0	.9	1.4	.0	.0	.0	2.3	.0	2.7	1.6	.0	.0	.0	4.3
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	3.8	.0	.0	.0	4.3
7	.0	.0	4.8	2.1	.0	.0	6.9	.0	.0	1.2	.0	.0	.0	5.1
8-9	.0	.0	.2	.9	.0	.0	1.3	.0	.0	2.7	1.2	.0	.0	3.9
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.3	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	7.6	3.0	.0	.0	14.8	.1	3.0	14.3	3.0	.0	.0	20.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.4	.0	.0	.0	2.6	.0	.1	.8	.0	.0	.0	.9	.9
3-4	.0	.3	1.8	.0	.0	.0	2.1	.0	.7	2.3	.3	.0	.0	3.7	3.7
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	2.9	.0	.0	.0	2.9	2.9
7	.0	.0	3.8	1.3	.0	.0	5.1	.0	.0	2.0	.3	.0	.0	2.3	2.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	1.0	.1	.0	.0	1.2	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	8.6	1.3	.0	.0	13.4	.0	.8	9.2	1.2	.0	.0	11.1	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.2	1.0	.0	.0	.0	.0	10.2	
1-2	.0	9.2	6.1	.0	.0	.0	15.3	
3-4	.0	.3	13.3	1.0	.0	.0	21.4	
5-6	.0	.0	12.8	1.3	.0	.0	14.3	
7	.0	.0	21.9	7.1	.0	.0	29.1	
8-9	.0	.0	3.1	3.1	.0	.0	6.2	
10-11	.0	.0	1.0	.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.7	10.8	60.2	13.3	.0	.0	100.0	196

PERIOD: (OVER-ALL) 1960-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	9.9	15.4	8.3	8.3	1.1	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
6-7	.0	1.1	3.7	9.2	13.4	4.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	6
8-9	.0	.0	.7	1.3	4.0	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	.4	1.1	.7	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
12-13	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
>13	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	3.3	.4	1.8	1.3	.4	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	3
TOTAL	10	32	63	58	73	24	7	1	1	1	0	0	0	0	0	0	0	0	0	272	5
PCT	3.7	11.8	23.2	21.3	27.6	8.8	2.6	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APRIL

AREA 0014 RAWSON
43.75 60.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.3	.0	2.3	.0	.0	.0	.0	4.6	.0	.0	6.9	.0	1.7	.0	86.8
NE	.0	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	7.0	.0	7.0	.0	78.9
E	8.9	.0	8.9	.0	.0	.0	.0	17.8	.0	.0	4.4	.0	.0	.0	77.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	3.3	6.6	3.3	.0	.0	.0	.0	13.2	9.3	1.7	1.7	.0	.0	.0	80.2
SW	2.5	2.5	2.5	.0	.0	.0	2.3	10.1	.0	2.5	4.3	.0	.0	.0	81.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	90.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	.0	.7	.0	90.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
TOT PCT	1.7	1.3	2.2	.0	.0	.0	.4	9.7	.4	.9	9.7	.0	.9	.0	86.9
TOT OBS	230														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000Z	.0	2.8	.0	.0	.0	.0	.0	2.8	.0	.0	9.9	.0	2.8	.0	84.3
0600Z	1.9	.0	3.7	.0	.0	.0	1.9	7.4	.0	.0	3.0	.0	.0	.0	83.3
1200Z	.0	1.8	3.6	.0	.0	.0	.0	5.3	1.8	.0	14.3	.0	.0	.0	78.2
1800Z	4.8	.0	1.6	.0	.0	.0	.0	6.3	.0	.0	4.8	.0	.0	.0	88.9
TOT PCT TOT OBS:	1.6 243	1.2	2.1	.0	.0	.0	.4	9.3	.4	.8	8.6	.0	.8	.0	84.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	06	09	12	18	21		
N	.6	4.2	2.2	1.6	.1	.1		9.9	19.3		11.0	10.1	11.9	8.2	8.0	9.8	15.4	9.9
NE	.7	1.6	1.9	.2	.0	.0		4.4	10.7		6.6	3.6	2.8	2.3	3.9	4.6	7.7	4.0
E	.0	2.4	1.9	.5	.1	.0		5.1	10.9		4.0	5.1	6.3	6.0	6.3	5.4	3.8	4.0
SE	1.0	2.6	2.2	.9	.5	.1		7.4	14.4		7.3	7.1	4.3	10.1	8.0	7.3	.0	7.1
S	1.6	3.0	3.8	1.3	.6	.4		10.8	19.2		10.9	10.4	18.2	8.2	10.6	10.6	10.6	11.9
SW	1.6	3.0	3.8	1.3	1.9	.8		18.1	18.6		17.2	18.2	19.3	16.0	17.9	23.6	21.8	
W	1.8	7.9	9.4	2.7	1.2	.1		22.3	14.3		22.8	18.5	18.2	24.1	21.8	22.6	19.7	23.9
NW	.8	5.2	10.0	3.7	.8	.1		20.7	16.0		19.7	26.7	14.5	23.7	21.8	20.4	19.2	19.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		.3	2.6	2.3	1.3	2.6	1.3	.0	.0
TOT OBS	122	401	470	178	66	21	1298		19.0		213	188	44	138	193	263	52	162
TOT PCT	9.7	31.9	37.4	14.1	5.2	1.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-41	41+				00	06	09	18
N	2.6	4.0	2.7	.8	.1	9.9	19.3		10.6	9.0	9.1	11.2
NE	1.6	1.8	1.0	.3	.0	4.4	10.7		5.3	2.6	4.3	4.9
E	2.1	1.9	.8	.3	.0	5.1	10.9		4.4	6.0	5.8	4.0
SE	2.3	2.3	1.7	.7	.3	7.4	14.4		7.2	8.9	7.8	3.4
S	3.3	3.4	2.6	.9	.6	10.8	19.2		10.7	10.3	10.6	11.6
SW	2.7	5.3	4.4	2.9	1.3	18.1	18.6		17.6	16.7	17.3	22.0
W	4.3	10.2	5.3	2.1	.4	22.3	14.3		20.9	22.8	22.3	24.4
NW	2.1	9.3	6.6	2.3	.2	20.7	16.0		21.9	22.2	21.0	16.6
VAR	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0
CALM	1.4					1.4	.0		1.3	1.5	2.0	.0
TOT OBS	293	487	317	122	39	1298		19.0	283	203	438	214
TOT PCT	23.3	38.7	25.2	9.7	3.1	100.0			100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APEA 0014 RANSON
43.75 60.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	1.3	7.8	32.6	37.3	19.8	3.9	3.1	19.2	100.0	383
0600Z	1.5	8.9	28.1	39.9	15.8	4.9	1.0	15.1	100.0	209
1201Z	2.0	8.3	34.3	33.0	15.3	6.1	1.1	14.8	100.0	458
1802Z	.0	8.9	29.0	44.4	10.7	6.1	.9	14.8	100.0	214
TOT	17	108	401	470	178	66	21	19.0		1238
PCT	1.4	8.3	31.9	37.4	14.1	5.2	1.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.2	1.0	6.0	2.8		4.4
NE	1.9	.7	1.9	.7		3.9
E	2.2	.4	.4	2.2		4.3
SE	2.4	.0	.1	.0		1.3
S	3.4	4.9	4.0	.6		3.7
SW	7.9	2.7	7.6	1.3		3.6
W	10.0	3.1	7.9	1.6		3.4
NW	9.3	1.3	3.0	1.9		3.1
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.6		8.0
TOT OBS	71	24	32	20	167	3.7
TOT PCT	42.5	14.0	31.1	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	130 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	1.2	.6	.6	.0	.0	.0	11.2	
NE	.6	.0	.0	.0	.1	.0	.1	.0	.0	.0	9.9	
E	1.2	.0	.0	.4	.7	.0	.4	.0	.0	.0	3.3	
SE	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.4	
S	.0	.0	.0	.0	2.2	.0	1.5	.0	.0	.0	8.7	
SW	1.2	.0	.6	.0	1.3	2.1	1.5	.0	.0	.0	12.9	
W	.0	.0	.0	.6	.6	.3	1.2	.0	.0	.0	18.3	
NW	.0	.0	.0	.1	1.2	1.2	.6	.0	.0	.0	11.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	6	0	1	3	19	7	10	0	3	3	181	167
TOT PCT	3.6	.0	.6	1.8	7.8	4.2	6.0	.0	1.8	1.8	72.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >8000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OR >6000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OR >4000	8.8	9.4	9.4	9.4	9.4	9.4	9.4	9.4
OR >2000	12.4	12.9	13.3	13.3	13.3	13.3	13.3	13.3
OR >1000	17.6	20.6	21.2	21.2	21.2	21.2	21.2	21.2
OR >600	19.4	23.4	23.9	23.9	23.9	23.9	23.9	23.9
OR >300	19.4	23.9	23.9	23.9	23.9	23.9	23.9	23.9
OR >150	19.4	23.9	23.9	23.9	23.9	23.9	23.9	23.9
OR >0	19.4	24.1	23.9	23.9	27.1	27.1	27.6	27.6
TOTAL	33	41	43	44	46	46	47	47

TOTAL NUMBER OF OBS: 170

PCT FREQ NH <5/8: 72.6

TABLE 8

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
24.9	21.5	19.0	7.9	4.5	6.2	7.3	6.2	4.5	4.0	177

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

APRIL

TABLE 8

AREA 0014 RAMSON
43.75 60.6W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2/5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5/10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	5.2	1.4	.7	.9	2.0	3.6	4.0	4.0	.0	.0	3.0	
	TOT %	5.2	1.4	1.1	.9	2.8	4.0	4.0	4.0	.0	.0	24.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	12.8	4.3	3.8	1.8	9.5	12.0	15.8	11.7	.0	.0	1.3	
	TOT %	12.8	4.3	3.8	1.8	10.3	12.4	15.8	11.7	.0	.0	73.0	
TOT OBS													230
TOT PCT		16.9	6.2	4.9	2.7	13.2	17.3	19.8	16.6	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2/5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5/10	0-3	.2	.3	.2	.0	.0	.3	.1	.0	.0	.0	.0	
	4-10	2.3	.7	1.2	.3	.2	1.4	.2	1.9	.0	.0	.0	
	11-21	1.5	.1	.0	1.4	1.7	.9	2.4	1.4	.0	.0	.0	
	22+	.0	.0	.0	.0	1.0	2.7	.6	.1	.0	.0	.0	
	TOT %	4.9	1.1	1.4	1.9	3.0	5.3	3.4	3.4	.0	.0	74.3	
10+	0-3	.3	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	
	4-10	.9	1.1	2.1	1.8	2.8	3.0	3.2	3.9	.0	.0	.0	
	11-21	5.1	4.3	1.6	.0	4.2	4.9	7.3	8.2	.0	.0	.0	
	22+	.7	.9	.0	.2	2.3	3.3	3.2	.2	.0	.0	.0	
	TOT %	11.1	6.1	4.1	2.0	9.1	11.6	13.9	12.3	.0	.0	72.2	
TOT OBS													288
TOT PCT		16.0	6.2	5.9	3.9	12.1	17.6	19.3	16.8	.0	.3	100.0	

APRIL

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1869-1976

AREA 0014 RAMSDEN
43.75 60.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <8/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	2.0	.0	2.0	3.9	2.0	3.9	.0	.0	.0	.0	13.7	86.3	91
0600	4.9	.0	.0	.0	7.3	.0	9.8	.0	4.9	2.4	29.3	70.7	41
1200	3.9	.0	.0	.0	8.8	8.8	11.8	.0	.0	2.9	38.2	61.8	34
1800	4.1	.0	.0	2.0	12.2	6.1	4.1	.0	2.0	2.0	32.7	67.3	49
TOT	7	0	1	3	13	8	10	0	3	3	48	127	175
PCT	4.0	.0	.5	1.7	7.4	4.6	5.7	.0	1.7	1.7	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VS2Y (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	1.1	1.1	.0	28.6	69.2	91
0600	1.6	.0	1.6	1.6	28.1	67.2	64
1200	2.7	2.7	.0	1.4	27.4	68.8	73
1800	2.7	.0	.0	2.7	17.8	78.7	73
TOT	5	3	2	4	77	210	301
PCT	1.7	1.0	.7	.3	25.6	69.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS2Y (NM) AND/OR
CEILING HGT (FEET, NM >4/3) BY HOUR

HOUR (GMT)	<150 <30YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/2 AND 5+	TOTAL OBS
0000	2.1	4.2	8.3	6.3	89.4	48
0600	4.9	4.9	4.9	24.4	70.7	41
1200	6.1	6.1	9.1	30.3	60.8	33
1800	4.2	4.2	6.3	29.0	68.8	48
TOT	7	8	12	35	183	170
PCT	4.1	4.7	7.1	20.6	72.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	.0	1	.5
69/69	.0	.0	.0	.0	.0	.0	.0	.0	3	1.5
68/64	.0	.0	.0	.0	1.5	2.6	5.7	1.5	22	11.3
59/59	.0	.0	.0	3.1	9.7	7.7	12.4	6.2	68	35.1
50/54	.0	.0	.0	2.4	3.6	7.8	13.9	6.2	71	36.6
49/49	.0	.0	.0	.0	1.0	6.7	4.6	1.0	26	13.4
48/44	.0	.0	.0	.0	.0	.0	.0	.0	3	1.5
TOTAL	0	0	1	11	29	99	73	31	194	100.0
PCT	.0	.0	.5	5.7	12.9	27.3	37.6	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
3.0	1.8	.4	1.0	.4	.9	1.8	2.1	.0	.0
3.8	.5	.4	1.7	1.8	6.3	9.8	8.8	.0	.0
6.7	2.8	3.9	.0	7.3	6.3	5.0	4.0	.0	.5
2.8	1.2	.8	.0	3.7	2.6	1.2	1.3	.0	.0
.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0
18.8	6.8	5.3	2.7	14.3	16.6	18.3	16.6	.0	.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	64	62	60	53	46	43	40	53.3	375
0600	63	61	59	54	48	43	40	53.1	205
1200	68	65	61	59	47	44	41	54.5	443
1800	70	66	64	59	48	46	43	55.6	198
TOT	70	64	61	54	46	44	40	54.1	1221

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	9.7	9.7	30.6	30.6	19.4	79	62		
0600	.0	4.2	20.8	29.2	25.0	20.8	79	48		
1200	.0	4.4	4.4	31.1	40.0	20.0	82	45		
1800	.0	3.8	13.4	21.2	46.2	13.3	80	52		
TOT	0	12	26	98	73	58	80	207		

APRIL

PERIOD: (PRIMARY) 1905-1976
(OVER-ALL) 1869-1976

TABLE 17

AREA 0014 RANSON
43.75 60.6WPCT PRPG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	43 48	42 52	33 58	37 60	41 64	45 68	49 72	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.4	.0	.4	2	.0	.9
7/8	.0	.0	.0	.0	.9	1.3	.4	.0	6	.0	2.6
6	.0	.0	.0	.4	.9	2.2	.4	.0	9	.4	3.4
5	.0	.0	.0	1.3	2.2	.9	.0	.0	10	.0	4.3
4	.0	.0	.9	2.6	2.6	1.7	.0	.0	18	.9	6.9
3	.0	.0	1.7	3.9	2.2	.9	.4	.0	21	1.7	7.3
2	.0	.9	2.2	3.6	1.7	1.3	.0	.0	27	1.3	10.3
1	.0	.9	2.2	2.6	2.6	.4	.0	.0	20	.9	7.8
0	.0	.9	3.0	6.0	1.7	.4	.0	.0	28	1.3	10.8
-1	.4	2.2	3.4	6.0	.9	.9	.0	.0	32	1.3	12.3
-2	.4	1.3	.9	3.9	1.3	.0	.0	.0	18	.9	6.9
-3	.0	.0	2.6	1.3	1.3	.0	.0	.0	12	.4	4.7
-4	.0	.0	1.3	.9	.0	.0	.0	.0	3	.0	2.2
-5	.0	.0	.4	.4	.0	.0	.0	.0	2	.0	.9
-6	.4	.0	.9	1.7	.0	.0	.0	.0	7	.0	3.0
-7/-8	.0	.9	1.7	1.3	.0	.0	.0	.0	9	.0	3.9
-9/-10	.4	.4	.9	.4	.0	.0	.0	.0	3	.0	2.2
-11/-13	.0	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	4	18	31	89	42	24	3	1	232	21	211
PCT	1.7	7.8	22.0	38.4	18.1	10.3	1.3	.4	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1969-1974

TABLE 18

PCT FREE OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	10.8	3.1	.0	.0	20.8	1.3	.0	6.9	.0	.0	.0	0.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.8	.0	.0	.0	3.8	.0	3.1	.0	.0	.0	.0	3.1

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0014 RAMSON
43.73 60.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	3.1
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	1.9	.0	.0	.0	1.9
7	.0	1.3	.0	1.3	.0	.0	3.1	.0	.0	1.3	3.1	1.5	.0	6.2
8-9	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.3	2.7	1.3	.0	6.1	.0	1.3	5.4	5.0	1.3	.0	13.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	1.3	3.8	.0	.0	.0	7.3	.0	6.9	.4	.0	.0	.0	7.3	7.3
3-4	.0	1.3	1.3	1.3	.0	.0	4.2	.0	4.4	3.8	.4	.0	.0	8.8	8.8
5-6	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	5.0	.0	.0	.0	5.0	5.0
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1	3.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	8.8	2.7	.0	.0	14.6	.0	13.1	12.3	.4	.0	.0	25.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	.0	1.3	.0	.0	.0	.0	1.3	
1-2	1.3	10.9	10.8	.0	.0	.0	23.2	
3-4	.0	7.7	13.4	1.3	.0	.0	24.4	
5-6	.0	1.3	10.9	3.1	.0	.0	21.3	
7	.0	1.3	4.6	6.2	1.3	.0	13.8	
8-9	.0	.0	4.6	1.3	.0	.0	6.2	
10-11	.0	.0	.0	.0	1.3	.0	1.3	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	29.2	32.3	13.8	3.1	.0	100.0	65

PERIOD: (OVER-ALL) 1969-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	.0	9.0	19.7	8.2	1.6	1.6	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	.0	1.6	6.6	6.6	1.6	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	3.3	.8	.8	.8	3.3	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
10-11	.0	.0	.0	1.6	.8	1.6	.0	1.6	2.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
12-13	.0	.0	.0	.0	.0	.0	2.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.6	1.6	1.6	.0	1.6	2.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
TOTAL	2	18	30	21	14	17	8	7	4	1	0	0	0	0	0	0	0	0	0	122	6
PCT	1.6	14.8	24.6	17.2	11.3	13.9	6.6	5.7	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1869-1974AREA 0014 RAWSON
43.75 60.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	1.6	.0	.0	.0	.0	.0	1.6	2.3	2.1	17.2	.0	6.3	.0	69.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	30.0	.0	.0	.0	68.3
E	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	60.0	.0	.0	.0	20.0
SE	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	92.3
S	15.1	4.3	.0	.0	.0	.0	.0	19.4	.0	.0	.0	.0	.0	.0	40.6
SW	6.1	4.9	2.4	.0	.0	.0	2.4	15.9	4.9	2.7	11.0	.0	.0	.0	67.1
W	.0	.0	.0	.0	.0	.0	6.8	6.8	.0	1.7	6.8	.0	.0	.0	83.1
NW	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	2.0	12.7	2.0	3.9	.0	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.0	2.0	1.0	.0	.0	.0	1.3	7.5	1.5	2.0	12.4	.5	2.0	.0	74.6
TOT OBS:	201														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	1.8	1.8	1.8	3.3	15.8	1.8	.0	.0	73.4
0600	4.7	2.3	2.3	.0	.0	.0	2.3	11.8	2.3	4.7	7.0	.0	.0	.0	76.7
1200	3.1	.0	1.6	.0	.0	.0	1.6	6.3	.0	.0	15.6	.0	4.7	.0	73.4
1800	4.3	6.8	.0	.0	.0	.0	.0	11.4	2.3	.0	6.8	.0	2.3	.0	77.3
TOT PCT TOT OBS:	2.9 208	1.9	1.0	.0	.0	.0	1.4	7.2	1.4	1.9	12.0	.5	1.9	.0	73.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.4	3.9	3.9	1.2	.1	.0		10.6	12.1		8.0	11.4	18.1	8.6	12.3	11.3	8.8	10.4	
NE	.7	2.4	1.9	.4	.0	.0		3.4	10.1		4.3	4.2	4.3	6.3	6.2	6.3	5.9	4.4	
E	.7	1.4	.9	.4	.0	.0		3.4	10.3		3.9	3.4	.0	2.6	2.9	3.3	1.3	4.9	
SE	.8	2.9	1.2	.7	.2	.1		3.8	11.7		3.7	3.6	3.4	6.3	5.8	5.9	1.5	3.9	
S	1.2	3.9	2.9	1.4	.8	.2		10.3	14.7		10.7	9.1	3.4	9.1	13.3	10.3	15.4	8.7	
SW	.6	6.3	3.4	3.8	2.4	.3		19.2	18.2		21.6	17.2	26.7	18.3	17.9	17.7	26.7	21.0	
W	.4	7.3	3.1	3.5	1.1	.0		20.7	13.3		18.3	22.3	11.2	22.6	21.6	19.8	20.6	21.6	
NW	.6	6.7	9.3	4.7	.6	.1		22.0	13.7		24.3	20.9	32.8	24.0	19.1	22.2	17.6	21.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6							2.6	.0		3.1	3.9	.0	1.7	.7	3.0	.0	2.1	
TOT OBS	154	389	371	270	89	12	1693		14.3		235	222	29	230	273	404	34	236	
TOT PCT	9.1	23.0	23.9	16.0	5.3	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				03	06	09	12	15	18	21
N	2.9	4.8	2.3	.4	.0		10.6	12.1	9.6	9.7	11.7	10.2		
NE	2.0	2.3	.8	.1	.0		3.4	10.1	4.2	6.1	6.3	4.6		
E	1.4	1.4	.4	.1	.0		3.4	10.3	3.7	2.3	3.2	4.4		
SE	2.1	2.3	.7	.3	.1		3.8	11.7	3.7	6.2	5.9	3.4		
S	2.6	4.1	2.2	1.0	.4		10.3	14.7	10.0	8.3	11.6	9.3		
SW	2.9	7.2	4.9	2.8	1.4		19.2	18.2	19.3	19.4	17.8	21.9		
W	3.6	8.9	5.3	2.3	.2		20.7	13.3	20.2	21.3	20.3	21.3		
NW	3.1	8.9	7.8	2.1	.1		22.0	13.7	22.7	23.0	20.9	20.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.6						2.6	.0	4.4	1.3	2.1	1.9		
TOT OBS	292	674	419	162	9	1685		14.3	477	239	679	270		
TOT PCT	23.3	40.0	24.9	9.6	.3		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1869-1974

MAY

AREA 0014 RAWSON
43.75 60.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	4.4	9.2	33.8	32.9	13.8	5.5	.4	13.7	100.0	477
0600	1.3	5.0	38.4	31.3	18.1	5.0	.4	14.7	100.0	259
1200	2.1	5.9	33.9	35.5	16.3	5.2	1.2	14.9	100.0	679
1800	1.9	4.8	36.3	34.1	17.0	5.6	.4	14.6	100.0	270
TOT	44	110	589	571	270	89	12	14.5		1485
PCT	2.6	6.5	35.0	33.9	16.0	5.3	.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	2.9	2.2	6.3	1.9		4.7
NE	.0	1.2	.2	5.7		7.5
E	.0	.0	.0	.3		8.0
SE	.0	.0	.9	1.0		7.6
S	2.4	3.4	3.8	1.9		4.9
SW	3.8	5.8	7.7	6.5		5.1
W	2.9	1.4	7.7	4.1		5.2
NW	13.0	2.4	4.6	3.4		3.7
CALM	.0	.0	.0	.0		.0
TOT OBS	26	17	34	27	104	4.8
TOT PCT	23.0	16.3	32.7	26.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	100	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	6499	7999				
N	.0	.0	.0	.0	1.9	1.9	1.0	.0	.0	.0	8.4	
NE	.0	.0	.0	.0	2.4	1.7	1.0	.0	.0	.0	2.2	
E	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	
S	.0	.0	.0	1.0	1.0	.0	4.3	1.0	.0	.0	6.3	
SW	.0	.0	1.9	.2	1.2	1.2	1.9	1.2	1.4	.3	14.2	
W	.0	.0	.0	.7	1.7	2.6	.0	.7	1.4	.3	8.4	
NW	.0	.0	.0	.0	1.9	.2	.0	.0	.0	.0	21.2	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	2	11	9	10	3	3	1	63	104	
TOT PCT	.0	.0	1.9	1.9	10.6	8.7	9.4	2.9	2.9	1.0	60.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)				VSBY (NM)			
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
>4500	2.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	2.9	3.8	3.8	3.8
>3000	4.8	6.7	6.7	6.7	6.7	6.7	6.7	6.7	4.8	6.7	6.7	6.7
>1500	6.7	16.2	16.2	16.2	16.2	16.2	16.2	16.2	6.7	16.2	16.2	16.2
>1000	13.3	24.8	24.8	24.8	24.8	24.8	24.8	24.8	13.3	24.8	24.8	24.8
>600	22.9	36.2	36.2	36.2	36.2	36.2	36.2	36.2	22.9	36.2	36.2	36.2
>300	23.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	23.8	38.1	38.1	38.1
>150	24.8	39.0	40.0	40.0	40.0	40.0	40.0	40.0	24.8	39.0	40.0	40.0
>0	24.8	39.0	40.0	40.0	40.0	40.0	40.0	40.0	24.8	39.0	40.0	40.0
TOTAL	26	41	42	42	42	42	42	42	26	41	42	42

TOTAL NUMBER OF OBS: 103

PCT FREQ NM <5/8: 60.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	8 USCC	TOTAL OBS
	22.3	7.1	11.6	6.9	10.7	4.9	10.7	6.9	15.2	.0	112

PERIOD: (PRIMARY) 1906-1974
(OVER-ALL) 1889-1974

MAY

AREA 0014 RAMSDN
43.75 80.6M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0
	TOT %	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.0
	TOT %	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.0
2<5	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
5<10	PCP	.5	.0	.0	.0	1.3	1.8	.0	.3	.0	.0	.0	3.5
	NO PCP	6.6	4.1	1.0	.8	3.1	5.4	9.8	12.3	.0	.0	.0	39.0
	TOT %	6.9	4.1	1.0	.8	4.4	7.1	9.8	12.5	.0	.0	.0	42.5
10+	PCP	.0	.0	.3	.3	1.0	1.0	1.0	.0	.0	.0	.0	3.5
	NO PCP	7.1	2.9	.0	2.3	6.3	11.9	7.0	12.1	.0	.0	.0	49.5
	TOT %	7.1	2.9	.3	2.5	7.3	12.9	8.0	12.1	.0	.0	.0	53.0
TOT OBS													200
TOT PCT		16.0	7.5	1.3	3.3	11.6	20.5	14.3	25.6	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.7
1/2<1	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.3	.3	.0	.3	.0	.0	.2	.2	.0	.0	.0	1.4
	11-21	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.7	.0	1.0	.3	.3	.2	.2	.0	.0	.0	2.6
5<10	0-9	.2	.2	.3	.3	.7	.2	.2	.0	.0	.0	.0	2.1
	4-10	2.9	1.7	.2	.0	.0	.9	2.1	3.4	.0	.0	.0	12.9
	11-21	3.3	1.9	.5	.2	2.9	3.6	2.4	6.8	.0	.0	.0	18.9
	22+	.4	.0	.0	.0	.0	1.0	1.0	1.3	.0	.0	.0	3.8
	TOT %	6.6	3.6	1.0	.5	3.2	5.7	5.8	11.5	.0	.0	.0	37.8
10+	0-9	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.0
	4-10	2.9	1.0	.0	1.0	1.2	3.6	4.1	3.4	.0	.0	.0	15.9
	11-21	2.4	1.0	.5	.3	4.1	3.9	3.1	4.6	.0	.0	.0	22.0
	22+	.9	.0	.0	.0	1.8	4.5	3.8	2.6	.0	.0	.0	13.6
	TOT %	5.9	2.4	.5	1.7	7.3	13.9	11.0	12.7	.0	.0	.0	55.6
TOT OBS													286
TOT PCT		14.3	6.8	1.6	3.3	10.8	19.9	18.0	25.3	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1969-1974AREA 0014 RAWSON
43.75 60.6W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900 1000	1000+	TOTAL	NM ANY	45/8 HGT	TOTAL OBS
00003	.0	.0	4.0	.0	12.0	8.0	4.0	4.0	.0	.0	32.0	68.0			25
06009	.0	.0	.0	.0	4.0	12.0	12.0	4.0	4.0	4.0	40.0	60.0			25
12015	.0	.0	.0	3.3	20.0	6.7	10.0	3.3	3.3	.0	46.7	53.3			30
18021	.0	.0	3.3	3.3	6.7	6.7	10.0	.0	3.3	.0	33.3	66.7			30
TOT	0	0	2	2	12	9	10	3	3	1	42	68			110
PCT	.0	.0	1.8	1.8	10.9	8.2	9.1	2.7	2.7	.9	38.2	61.8			100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.2	2.4	.0	3.6	38.1	54.8	94
06009	.0	1.7	.0	3.4	43.1	51.7	98
12015	1.1	.0	3.3	1.1	42.2	52.2	90
18021	.0	3.3	1.6	3.3	29.5	62.3	61
TOT	2	3	4	8	113	161	393
PCT	.7	1.7	1.4	2.7	38.6	54.9	100.0

TABLE 12

CUMULATIVE PLY FROM UP RANGES UP VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	4.3	4.3	30.4	65.2	23
06009	.0	.0	.0	41.7	58.3	24
12015	.0	.0	3.3	43.3	53.3	30
18021	.0	3.6	7.1	28.6	64.3	28
TOT	0	2	4	38	63	103
PCT	.0	1.9	3.8	36.2	60.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
34/39	.0	.0	.0	.7	.8	1.7	4.5	.8	13	7.4
30/34	.0	.0	.0	1.1	4.0	5.7	10.8	9.7	28	31.3
49/49	.0	.0	.6	.0	1.1	13.6	13.3	21.0	31	51.7
40/44	.0	.0	.6	.6	.6	2.8	2.3	2.8	17	9.7
TOTAL	0	0	2	3	11	42	38	60	176	100.0
PCT	.0	.0	1.1	1.7	6.3	23.9	33.0	34.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
34/39	3.0	.7	.0	.0	.0	.1	.9	2.7	.0	.0
30/34	4.8	2.6	.0	.0	1.4	3.4	6.3	10.5	.0	.0
49/49	7.8	2.1	.6	2.3	8.0	12.9	8.7	9.7	.0	.0
40/44	.0	1.1	.3	.9	3.4	2.8	.6	.6	.0	.0
TOTAL	15.1	6.3	.9	3.7	12.8	21.3	16.3	23.4	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	62	38	34	48	43	40	39	49.0	465
06009	59	38	33	49	43	41	40	48.8	257
12015	62	39	36	50	43	41	37	49.8	654
18021	62	39	37	50	44	42	41	50.2	258
TOT	62	39	36	49	43	41	39	49.3	1634

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.0	2.0	23.5	29.4	41.2	86	81		
06009	.0	2.6	.0	18.4	42.1	36.8	83	38		
12015	.0	3.6	7.3	23.6	29.1	36.4	84	33		
18021	.0	2.6	14.8	23.7	36.8	21.1	81	38		
TOT	0	5	11	42	61	63	84	182		

MAY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1869-1974AREA 0014 RANSON
43.75 60.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT FOG	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
7/8	.0	.0	.0	.0	2.0	1.5	.0	7	.0	3.4
6	.0	.0	.0	2.0	1.5	.0	.0	7	.0	3.4
5	.0	.0	1.0	3.4	.0	1.5	.0	12	1.0	4.9
4	.0	.0	.5	3.4	.5	.5	.0	10	.0	4.9
3	.0	.5	2.5	4.4	1.5	.5	.0	19	2.5	6.9
2	.5	.5	8.4	9.9	2.0	.0	.0	31	3.0	12.3
1	.0	1.0	9.9	9.9	1.5	.0	.0	21	3.0	7.4
0	.0	.5	6.4	9.9	.5	.0	.0	23	1.5	9.9
-1	.5	.5	5.4	.5	.5	.0	.0	15	.5	6.9
-2	.0	1.5	2.5	2.5	.0	.0	.0	13	.0	6.4
-3	.0	1.0	3.4	.0	.5	.0	.0	10	.5	4.4
-4	.0	1.5	3.0	1.5	.0	.0	.0	12	.5	5.4
-5	.0	1.0	2.0	.5	.0	.0	.0	7	.0	3.4
-6	.0	.0	2.5	1.0	.5	.0	.0	8	.0	3.9
-7/-8	.0	1.5	.5	.0	.0	.0	.0	4	.0	2.0
-9/-10	.0	.5	1.0	.0	.0	.0	.0	3	.0	1.5
TOTAL	2	20	87	83	22	8	1	203	25	178
PCT	1.0	9.9	42.9	31.0	10.8	3.9	.5	100.0	12.3	87.7

PERIOD: (OVER-ALL) 1969-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	1.9	1.4	.0	.0	.0	3.4	.0	.0	.5	.0	.0	.0	.4
1-2	.0	3.8	.0	.0	.0	.0	3.8	1.9	1.9	.0	.0	.0	.0	3.8
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.5	1.9	.0	.0	.0	2.4
5-6	.0	1.9	3.8	.0	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	3.4	.0	3.4	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.1	5.3	1.4	3.4	.0	19.2	1.9	2.4	2.4	.0	.0	.0	6.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0014 RANSON
43.75 60.6W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	.5
3-4	.0	1.9	.0	1.9	.0	.0	3.8	.0	1.9	.0	.0	.0	.0	1.9	1.9
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	2.4	2.4	.0	.0	4.8	4.8
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	2.4	2.9	.0	.0	5.3	5.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	1.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	1.4	3.4	.0	.0	6.7	.0	2.4	4.8	7.2	1.9	.0	16.3	16.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.9	.0	.0	.0	1.9	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	7.7	3.8	.0	.0	.0	11.5	11.5
5-6	.0	.0	1.9	3.4	.0	.0	5.3	.0	.0	7.7	.0	.0	.0	13.5	13.5
7	.0	.0	2.9	1.4	.0	.0	4.3	.0	.0	6.3	3.8	.0	.0	10.1	10.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	3.8	3.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	4.8	6.7	.0	.0	13.0	.0	7.7	21.6	8.2	.0	.0	38.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	1.9	1.9	.0	.0	.0	3.8	3.8
1-2	1.9	7.7	1.9	.0	.0	.0	11.5	11.5
3-4	.0	13.5	7.7	1.9	.0	.0	23.1	23.1
5-6	.0	1.9	17.3	3.8	.0	.0	23.0	23.0
7	.0	.0	11.5	9.4	.0	.0	21.2	21.2
8-9	.0	.0	.0	3.8	.0	.0	3.8	3.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.9	.0	.0	1.9	1.9
13-16	.0	.0	.0	3.8	1.9	.0	5.8	5.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	3.8	.0	3.8	3.8
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	23.0	40.4	26.9	5.8	.0	100.0	52

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-24	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	5.8	9.3	8.1	4.7	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	4
6-7	.0	.0	3.5	4.7	5.8	4.7	2.3	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	20	8
8-9	.0	.0	2.3	1.2	2.3	1.2	3.5	2.3	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	1.2	.0	1.2	.0	.0	3.5	3.5	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
12-13	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
13-16	.0	.0	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
16-17	.0	4.7	2.3	3.5	2.3	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	1	10	15	16	15	6	10	5	5	1	0	0	2	0	0	0	0	0	0	86	7
PCT	1.2	11.6	17.4	18.6	17.4	7.0	11.6	5.8	5.8	1.2	.0	.0	2.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0014 RAWSON
43.75 60.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	1.2	.0	.0	.0	.0	.0	1.2	.0	3.6	10.1	.0	1.8	.0	82.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	6.1	.0	1.0	.0	86.9
E	.0	17.8	.0	.0	.0	.0	.0	17.8	.0	.0	8.9	.0	.0	.0	73.3
SE	18.3	.0	.0	.0	.0	.0	.0	18.3	29.6	.0	.0	14.8	.0	.0	37.0
S	8.0	.0	.0	.0	.0	.0	.0	8.0	3.4	.0	4.9	.0	.0	.0	84.1
SW	6.7	.0	.0	.0	.0	.0	.0	6.7	.8	.0	3.4	.0	.0	.0	89.1
W	1.1	.0	2.1	.0	.0	.0	.0	3.2	4.3	.0	9.4	.0	.0	.0	82.9
NW	2.7	.9	.0	.0	.0	.0	.0	3.6	.0	.0	6.8	.0	.0	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
TOT PCT	2.9	1.2	.4	.0	.0	.0	.0	4.3	2.0	1.2	7.4	.4	.4	.0	84.0
TOT OBS:	244														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZS PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	1.4	1.4	.0	.0	.0	.0	.0	2.7	.0	2.9	8.6	1.4	.0	.0	84.3
0600Z	2.6	.0	.0	.0	.0	.0	.0	2.6	2.6	2.6	3.3	.0	.0	.0	86.8
1201Z	3.3	1.3	1.3	.0	.0	.0	.0	8.0	2.7	.0	8.0	.0	.0	.0	81.3
1802Z	1.3	1.3	.0	.0	.0	.0	.0	3.0	3.0	.0	9.0	.0	1.3	.0	83.6
TOT PCT TOT OBS:	2.8	1.2	.4	.0	.0	.0	.0	4.4	2.0	1.2	8.0	.4	.4	.0	83.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.8	4.7	1.9	.6	.0		11.7	14.9		11.8	12.2	7.1	11.4	11.6	11.4	24.3	10.3
NE	.3	1.4	1.3	.4	.2	.0		3.9	13.1		3.8	3.1	3.6	2.2	3.3	4.9	11.8	4.4
E	.2	1.0	.9	.2	.2	.0		2.0	13.7		1.8	2.3	3.4	1.9	2.9	1.4	2.0	1.7
SE	.4	1.7	2.0	.7	.3	.1		3.2	14.8		4.0	3.0	3.6	4.7	5.1	6.2	2.3	4.3
S	.9	3.0	3.1	2.7	.9	.1		10.7	17.2		10.7	10.3	11.6	12.2	10.3	11.4	11.8	8.8
SW	1.3	3.6	4.7	3.7	2.6	1.2		19.0	19.8		20.9	19.1	19.6	16.6	21.0	17.4	10.3	20.9
W	1.6	6.6	7.6	3.4	1.7	.3		21.3	13.9		18.4	21.1	13.4	23.4	21.3	21.1	13.7	24.0
NW	1.1	6.4	9.4	3.8	1.7	.0		24.5	16.9		24.5	23.3	32.1	26.8	23.1	24.2	21.6	23.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.9	1.4	3.6	1.0	1.2	1.9	2.0	2.3
TOT OBS	174	409	486	384	172	36	2061		16.4		312	286	28	290	326	486	31	302
TOT PCT	6.4	24.3	33.3	18.6	8.3	1.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	03	06	12
N	2.3	4.8	3.4	1.0	.2			11.7	14.9		12.0	11.0	11.3	12.3
NE	1.4	1.4	.6	.4	.1			3.9	13.1		3.4	2.4	4.2	3.3
E	.3	1.0	.2	.3	.0			2.0	13.7		2.2	2.2	2.0	1.7
SE	1.1	2.2	1.2	.6	.1			3.2	14.8		3.3	4.6	3.8	4.0
S	2.2	3.4	2.8	1.9	.4			10.7	17.2		10.3	12.2	10.9	9.2
SW	3.9	3.9	4.0	3.0	2.2			19.0	19.8		20.1	16.8	18.9	19.3
W	4.3	6.2	3.1	2.3	.8			21.3	13.9		19.8	22.6	21.3	22.3
NW	3.8	9.1	7.6	3.7	.3			24.5	16.9		24.9	27.0	23.8	22.9
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.7							1.7	.0		1.7	1.3	1.6	2.3
TOT OBS	442	743	313	274	87	2061			16.4		312	286	28	290
TOT PCT	21.4	36.1	23.0	13.3	4.2			100.0			100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1954-1975

AREA 0014, RAWSON
43.73 60.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	1.7	7.2	31.3	32.3	17.9	7.7	2.0	16.2	100.0	598
0600Z	1.3	7.3	29.9	30.5	18.6	10.7	1.6	16.8	100.0	318
1201Z	1.6	6.9	28.9	34.1	19.1	7.7	1.6	16.2	100.0	792
1801Z	2.3	4.8	27.8	33.7	19.0	8.8	1.7	16.9	100.0	353
TOT	35	1.9	609	686	384	172	36	16.4		2061
PCT	1.7	6.7	29.5	33.3	18.6	8.3	1.7	100.0		

TABLE 4

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.3	.8	6.7	4.3		3.0
NE	.0	.0	1.2	3.3		7.7
E	2.1	.0	1.7	1.7		9.9
SE	.0	.0	1.7	3.3		7.4
S	2.9	.5	3.4	3.4		3.3
SW	3.1	3.7	8.1	.4		4.3
W	3.0	4.1	4.1	1.6		3.6
NW	3.4	4.1	10.1	2.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	.8	.8		4.6
TOT OBS	31	17	31	30	129	4.8
TOT PCT	24.0	13.2	39.5	23.3	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.6	.0	.8	.8	2.9	1.0	.0	.0	.0	.8	8.9	
NE	.8	.0	.8	.2	.0	1.9	.0	.0	.0	.8	.0	
E	.0	.0	.0	.6	1.1	.0	.0	.0	.0	.8	3.1	
SE	.0	.0	.0	.6	2.9	1.5	.0	.0	.0	.0	.2	
S	.0	.0	.8	2.3	2.1	1.4	.0	1.2	.0	.0	6.6	
SW	.0	.0	.0	1.2	.8	.2	.8	.4	.0	.0	12.0	
W	.0	.0	.8	2.9	1.6	.0	.0	.0	.0	.0	9.3	
NW	.2	.8	.0	1.6	1.7	.2	.0	.8	.0	.8	16.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.6	
TOT OBS	2	1	4	13	17	9	1	3	3	4	79	129
TOT PCT	1.6	.8	3.1	10.1	13.2	7.0	.8	2.3	.0	3.1	58.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISIB (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>3000	>2000	>1000	>500	>200	>100
OR >6500	1.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.1
OR >5000	3.1	4.6	4.6	4.6	4.6	5.3	5.3	5.3	5.3	5.3	5.3	5.3
OR >3500	3.8	5.3	5.3	5.3	5.3	6.1	6.1	6.1	6.1	6.1	6.1	6.1
OR >2000	6.9	11.5	11.5	12.2	12.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0
OR >1000	14.8	21.4	24.4	25.2	25.2	26.0	26.0	26.0	26.0	26.0	26.0	26.0
OR >400	23.7	32.1	35.1	35.9	35.9	36.6	36.6	36.6	36.6	36.6	36.6	36.6
OR >300	26.0	35.1	38.2	38.9	38.9	39.7	39.7	39.7	39.7	39.7	39.7	39.7
OR >150	26.0	35.9	38.9	39.7	39.7	40.3	40.3	40.3	40.3	40.3	40.3	40.3
OR >0	26.0	35.9	38.9	40.3	40.3	41.2	41.2	42.0	42.0	42.0	42.0	42.0
TOTAL	34	47	51	53	53	54	55	55	55	55	55	55

TOTAL NUMBER OF OBS: 131

PCT FREQ NM <5/8: 58.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	21.1	6.0	11.3	9.8	9.0	10.5	7.3	12.8	10.5	1.5	133

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

JUNE

AREA 0014 RAMSON
43.75 60.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.8	.0	.5	.0	.0	.0	.2	.3	.0	.5	2.3	
	TOT %	.8	.0	.5	.0	.0	.0	.2	.3	.0	.5	2.3	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.5	.5	.0	.5	.0	.0	.5	.0	.0	.0	1.8	
	TOT %	.5	.5	.0	.5	.0	.0	.5	.0	.0	.0	1.8	
2<5	PCP	.0	.0	.0	.6	.8	.0	.7	.2	.0	.0	2.3	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.9	
	TOT %	.0	.0	.0	1.0	.8	.0	.7	.7	.0	.0	3.2	
5<10	PCP	.2	.0	.5	.0	.0	.5	.0	.7	.0	.0	1.8	
	NO PCP	3.2	3.0	1.4	.9	2.6	3.3	9.2	12.2	.0	.5	36.4	
	TOT %	3.5	3.0	1.8	.9	2.6	3.8	9.2	12.9	.0	.5	38.2	
10+	PCP	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.9	
	NO PCP	8.1	1.7	2.4	.7	8.7	9.4	10.9	11.6	.0	1.4	53.0	
	TOT %	8.1	1.7	2.9	.7	8.7	9.9	10.9	11.6	.0	1.4	53.9	
TOT OBS													217
TOT PCT		13.0	9.4	5.2	3.1	10.1	13.7	21.5	23.6	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.6	.0	.4	.0	.0	.0	.2	.3	.0		1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.6	.0	.4	.0	.0	.0	.2	.3	.0	.4	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
1<2	0-3	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.7	
	4-10	.0	.4	.0	.0	.0	.0	.4	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.0	.4	.0	.0	.4	.0	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.8	.2	.0		1.1	
	11-21	.0	.0	.0	.8	.3	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	.0	.8	.2	.0	.4	.0		1.1	
	TOT %	.0	.0	.2	1.0	.8	.2	.8	.6	.0	.0	3.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.4	1.3	
	4-10	1.3	1.3	1.3	.4	.4	1.1	3.9	4.8	.0		14.8	
	11-21	1.0	1.3	.0	.0	.6	2.3	3.1	4.2	.0		12.9	
	22+	.6	.0	.0	.4	1.1	.4	.0	1.6	.0		4.1	
	TOT %	3.1	2.6	1.3	.7	2.1	3.8	5.1	10.3	.0	.4	32.8	
10+	0-3	1.1	.0	.0	.0	.2	.4	1.3	.0	.0	1.1	4.1	
	4-10	2.0	.9	.9	1.1	2.3	1.3	3.1	2.8	.0		16.6	
	11-21	3.3	.8	1.4	.1	3.5	4.3	4.2	7.8	.0		25.9	
	22+	.7	.0	.0	.1	4.2	4.2	2.0	2.8	.0		14.0	
	TOT %	7.4	1.8	2.3	1.3	9.8	10.3	12.6	19.4	.0	1.1	60.1	
TOT OBS													271
TOT PCT		11.7	4.9	4.3	3.4	12.7	14.3	21.9	24.7	.0	1.8	100.0	

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

AREA 0014 RAMSON
43.75 60.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	5.7	11.4	2.9	8.0	.0	2.9	.0	2.9	34.3	65.7	35
06009	.0	.0	4.3	17.4	8.7	.0	.0	4.3	.0	.0	34.8	65.2	23
12015	2.9	.0	2.9	5.9	26.5	5.9	.0	2.9	.0	.0	47.1	52.9	34
18021	2.6	2.6	.0	10.3	12.8	10.3	2.6	.0	.0	7.7	48.7	51.3	39
TOT	2	1	4	14	17	9	1	3	0	4	55	76	131
PCT	1.5	.8	3.1	10.7	13.0	6.9	.8	2.3	.0	3.1	42.0	58.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.0	1.3	2.9	2.9	40.5	53.2	79
06009	.0	.0	.0	4.3	37.0	58.7	46
12015	2.4	1.2	1.2	4.7	31.8	58.8	85
18021	4.3	.0	1.5	1.5	22.4	70.1	67
TOT	3	2	4	9	91	166	277
PCT	1.0	.7	1.4	3.2	32.9	59.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	5.7	20.0	14.3	65.7	35
06009	.0	4.3	21.7	13.0	65.2	23
12015	2.9	5.9	20.6	26.5	52.9	34
18021	2.6	7.7	20.3	28.2	51.3	39
TOT	2	8	27	28	76	131
PCT	1.5	6.1	20.6	21.4	58.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	1.4	1.4	.5	.0	7	3.2
50/54	.0	.0	.0	.0	1.4	7.8	15.5	3.7	62	28.3
45/49	.0	.0	.0	.5	1.8	14.6	14.6	15.3	109	49.8
40/44	.0	.0	.0	.5	2.9	2.7	5.9	7.3	41	18.7
TOTAL	0	0	0	2	15	38	80	64	219	100.0
PCT	.0	.0	.0	.9	6.8	26.5	36.5	29.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.1	.3	.1	.8	1.8	.0	.0
50/54	9.8	4.2	.3	.1	2.3	2.1	4.6	5.3	.0	.0
45/49	6.6	4.0	1.4	.0	1.7	7.8	12.3	15.2	.0	1.4
40/44	2.1	2.2	2.4	.6	3.1	2.7	3.1	1.7	.0	.9
TOTAL	18.2	10.4	4.1	.8	7.4	12.1	20.8	24.0	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	55	52	46	39	37	35	45.8	383
06009	56	54	57	46	39	37	36	45.5	213
12015	58	58	55	46	40	38	36	46.5	761
18021	60	56	54	47	41	35	37	46.9	397
TOT	60	55	53	46	40	37	35	46.2	1994

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.7	8.5	15.9	39.0	33.9	84	38		35
06009	.0	.0	10.3	33.9	23.4	28.2	82	39		23
12015	.0	1.6	1.8	23.4	39.7	31.7	84	65		34
18021	.0	.0	8.1	29.0	37.1	23.8	83	62		39
TOT	0	2	13	58	61	67	83	225		

JUNE

PERIOD: (PRIMARY) 1905-1975
(OVER-ALL) 1854-1975

TABLE 17

APEA 0014 RANSON
43.75 80.5WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	TOT	M FOG	NO FOG
7/8	.0	.0	.4	.4	.4	3	.0	1.3
6	.0	.0	.9	.4	1.3	6	.4	2.4
5	.0	.0	.9	1.8	.4	7	.0	3.1
4	.0	.0	4.0	1.8	1.8	17	.4	7.1
3	.0	.0	7.1	2.2	1.3	24	.4	10.2
2	.0	1.8	6.2	3.1	.4	22	.4	11.1
1	.0	4.9	3.3	9.1	1.8	30	1.8	11.3
0	.0	3.1	3.8	3.3	.9	30	1.8	11.3
-1	.0	4.9	4.0	1.8	.4	23	.4	10.6
-2	.0	3.3	1.8	1.3	.0	13	.4	6.2
-3	.0	1.8	1.8	1.3	.0	11	.9	4.0
-4	.0	.4	.9	.9	.0	9	.0	2.2
-5	.0	.4	2.7	.0	.0	7	.0	3.1
-6	.4	1.3	2.7	.0	.0	10	.0	4.4
-7/-8	.0	1.8	.4	.0	.0	5	.0	2.2
-9/-10	.0	.4	1.3	.0	.0	4	.0	1.8
-11/-13	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	1	36	49	20	226	16	210	
PCT	.4	24.8	44.2	21.7	8.8	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.4	.0	.0	.0	.0	1.4	41	.0	1.4	.0	.0	.0	.0	1.4
1-2	1.4	1.0	.0	.0	.0	.0	2.4	1-2	.0	1.4	4.1	.0	.0	.0	5.5
3-4	.0	1.4	1.0	.0	.0	.0	2.4	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.0	.0	.0	.0	1.0	5-6	.0	1.4	.3	.0	.0	.0	1.7
7	.0	.0	2.4	1.4	.0	.0	3.8	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.0	.0	1.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.4	.0	.0	1.4	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.8	4.3	3.8	.0	.0	13.4	TOT PCT	.0	4.1	4.3	.0	.0	.0	8.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	1.4	1.4	.0	.0	.0	2.7	1-2	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	1.4	1.4	.0	.0	.0	2.7	3-4	.0	.0	1.4	.0	.0	.0	2.7
5-6	.0	.0	1.0	.0	.0	.0	1.0	5-6	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.8	.0	.0	.0	6.3	TOT PCT	1.4	.0	3.1	1.7	.0	.0	6.2

PERIOD: (OVER-ALL) 1969-1979

JUNE

AREA 0014 RAMSON
49.75 60.5W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.4	.0	.0	.0	2.4	.7	.0	1.7	.0	.0	.0	2.4
5-6	.0	2.7	.0	1.0	.0	.0	3.8	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	2.7
10-11	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	.0	4.1
13-16	.0	.0	.0	1.4	1.4	.0	2.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.4	3.8	2.7	.0	12.7	.7	.0	7.8	3.8	.0	.0	13.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.4	1.0	.0	.0	.0	4.8	.0	2.1	4.9	.0	.0	.0	6.3	.0
3-4	2.1	.0	.0	.0	.0	.0	2.1	.0	2.7	3.1	4.1	.0	.0	9.9	.0
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	3.1	2.7	.0	.0	5.8	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.4	.0	.0	1.7	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.3	.0	.0	1.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.4	3.8	3.4	.0	.0	.0	10.6	.0	4.8	12.3	9.9	.0	.0	27.1	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	4.1	.0	.0	.0	.0	6.8	
1-2	2.7	8.2	13.7	.0	.0	.0	24.7	
3-4	2.7	9.5	11.0	5.9	.0	.0	24.7	
5-6	.0	4.1	9.6	4.1	.0	.0	17.8	
7	.0	.0	4.1	4.1	.0	.0	8.2	
8-9	.0	.0	1.4	2.7	.0	.0	4.1	
10-11	.0	.0	2.7	1.4	1.4	.0	5.9	
12	.0	.0	.0	9.5	.0	.0	9.5	
13-16	.0	.0	.0	1.4	1.4	.0	2.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	21.9	42.3	24.7	2.7	.0	100.0	79

PERIOD: (OVER-ALL) 1969-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.7	6.0	8.3	5.1	2.6	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
6-7	.0	.9	4.3	10.3	7.7	1.7	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	6
8-9	.0	1.7	.0	1.7	2.6	1.7	3.4	3.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	9
10-11	.0	1.7	.0	1.7	.9	.9	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	8
12-13	.0	.0	.9	2.6	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
13-15	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
15-17	.9	1.7	3.4	1.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
TOTAL	3	14	20	27	20	6	11	12	4	0	0	0	0	0	0	0	0	0	0	117	6
PCT	2.6	12.0	17.1	23.1	17.1	5.1	9.4	10.3	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 904-1973
(OVER-ALL) 867-1973AREA 0014 RAMSON
43.75 60.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIP. SHR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.9	.0	.0	.0	.0	.0	.0	3.9	2.0	.0	13.7	.0	1.0	.0	77.5
NE	.0	.0	33.3	.0	.0	.0	.0	33.3	.0	.0	16.7	.0	.0	.0	50.0
E	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	34.5	.0	.0	.0	27.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	.0	.0	.0	85.0
S	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	11.1	.0	.0	.0	80.6
SW	.0	6.2	12.3	.0	.0	.0	.0	18.5	7.7	.0	9.2	.0	.0	.0	64.6
W	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.0	6.0	.0	2.0	.0	84.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.4	.0	1.8	.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.7	.6	1.7	.0	.0	.0	.0	4.0	2.3	1.1	11.4	.0	1.1	.0	80.1
TOT OBS:	176														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	.0	.0	2.0	.0	.0	.0	.0	2.0	2.0	.0	12.0	.0	2.0	.0	82.0
0600	4.3	.0	.0	.0	.0	.0	.0	4.3	4.3	4.3	4.3	.0	.0	.0	81.8
1200	2.0	.0	2.0	.0	.0	.0	.0	3.9	3.9	2.0	13.7	.0	.0	.0	78.3
1800	1.8	1.8	1.8	.0	.0	.0	.0	5.5	.0	.0	12.7	.0	1.8	.0	80.0
TOT PCT TOT OBS:	1.7 176	.6	1.7	.0	.0	.0	.0	3.9	2.2	1.1	11.8	.0	1.1	.0	79.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.7	2.7	3.7	2.3	.3	.0	9.9	16.0	10.2	7.9	31.3	7.0	8.6	10.7	26.4	10.6	
NE	.4	2.5	1.8	.2	.0	.0	4.9	10.3	5.8	4.6	.0	4.9	4.0	5.4	6.4	4.6	
E	.3	1.8	.3	.3	.0	.0	2.8	10.7	2.4	3.2	.0	3.0	3.6	3.0	.0	2.0	
SE	.8	2.3	1.6	.8	.1	.0	5.6	12.2	4.2	5.3	3.1	7.2	6.6	4.9	9.3	5.3	
S	.9	2.5	2.6	1.5	1.1	.4	9.0	18.4	9.7	8.9	14.1	8.9	9.7	9.1	5.7	7.3	
SW	1.3	4.4	6.2	3.9	1.7	.8	18.3	18.7	17.8	18.8	14.1	18.4	18.6	16.9	9.3	22.2	
W	1.2	7.2	8.2	5.3	1.0	.1	23.2	19.9	24.7	24.0	12.3	23.7	19.9	23.9	17.9	23.8	
NW	.6	5.7	9.4	5.8	1.3	.1	23.1	17.6	21.5	22.7	25.0	22.0	23.2	23.7	25.0	22.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.7	4.6	.0	4.9	3.8	2.4	.0	1.3	
TOT OBS	176	394	644	393	109	26	1906	13.9	293	263	16	264	292	468	35	273	
TOT PCT	9.3	29.1	33.8	20.7	5.7	1.4		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	18
N	1.8	7.2	3.5	1.2	.1	9.9	16.0	9.1	8.4	9.9	12.4	
NE	1.2	2.6	.7	.1	.0	4.9	10.3	5.2	4.6	4.9	4.8	
E	1.0	1.3	.4	.2	.0	2.8	10.7	2.8	2.9	3.2	1.6	
SE	1.9	2.0	1.2	.4	.0	5.6	12.2	4.7	7.0	3.6	5.8	
S	2.0	2.9	1.6	1.2	.9	9.0	18.4	9.3	9.2	9.3	7.3	
SW	3.3	5.5	5.3	2.8	1.4	18.3	18.7	18.3	18.1	17.3	20.7	
W	4.0	8.9	7.0	2.9	.3	23.2	19.9	24.4	23.0	22.4	23.1	
NW	2.2	8.8	8.3	3.2	.4	23.1	17.6	22.1	22.1	24.2	22.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.3					3.3	.0	4.1	4.6	2.9	1.3	
TOT OBS	399	672	343	230	67	1906	13.9	358	280	740	308	
TOT PCT	20.9	35.3	28.3	12.1	3.3		100.0	100.0	100.0	100.0	100.0	

AREA 0014 RAWSON
43.75 60.84

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
08003	4.1	6.1	24.2	35.1	18.1	5.6	1.8	19.7	100.0	930	
08009	4.6	5.7	30.0	29.3	22.9	5.4	2.1	16.0	100.0	280	
12615	2.9	5.9	29.9	33.4	20.8	6.1	1.1	15.8	100.0	760	
18621	1.3	6.8	26.0	36.4	23.4	5.5	.6	16.3	100.0	308	
TOT	62	116	554	644	395	109	26	15.9		1906	
PCT	3.3	6.1	29.1	33.8	20.7	5.7	1.4	100.0			

TABLE 5

PCT FRAG OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						MEAN CLOUD COVER
WIND DIR	0-2	3-4	5-7	8 & OBSO	TOTAL OBS	
N	11.1	9.2	8.4	5.7		4.2
NE	.2	.0	.0	1.2		4.8
E	.0	.0	.0	2.0		8.0
SE	1.0	1.0	3.0	1.0		4.5
S	1.3	.7	3.0	.7		4.5
SW	3.2	1.2	3.3	.2		3.3
W	6.2	2.0	3.0	1.2		3.4
NW	14.9	3.7	8.9	5.7		3.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.0		8.0
TOT OBS	38	14	30	19	101	
TOT PCT	37.6	13.9	29.7	18.8	100.0	4.1

TABLE 4

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 9/8$ BY WIND DIRECTION

[illegible]

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (MM 34/8) AND VSBY (NM)

CEILING (FEET)	VSSY (MM)							
	0 OR >10	0 OR >8	0 OR >6	0 OR >4	0 OR >2	0 OR >1/2	0 OR >1/4	0 OR >0.0
0 OR >6500	5.0	6.9	8.9	8.9	8.9	8.9	8.9	8.9
0 OR >5000	6.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
0 OR >3500	10.9	17.8	17.8	17.8	17.8	17.8	17.8	17.8
0 OR >2000	16.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8
0 OR >1000	17.8	27.7	27.7	27.7	27.7	27.7	27.7	27.7
0 OR >600	21.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
0 OR >300	31.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
0 OR >150	31.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
0 OR > 0	31.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7
TOTAL	22	33	33	33	33	33	33	33

TOTAL NUMBER OF CBS: 101

PCT FREO NH 45/01 67.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL DBS
30.1	13.6	7.8	4.9	10.7	4.9	5.0	9.7	12.6	.0	103

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

JULY

AREA 0014. RAMSON
43.75 60.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.4
	TOT %	2.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.6	.6	.0	.0	1.1	.0	.0	.0	2.9
	TOT %	.6	.0	.0	.6	.6	.0	.0	1.1	.0	.0	.0	2.9
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
5<10	PCP	1.1	.6	.6	.0	.0	1.7	.0	.0	.0	.0	.0	4.0
	NO PCP	8.0	.9	1.1	.3	1.3	4.1	6.3	11.1	.0	.0	.0	33.0
	TOT %	9.1	1.5	1.7	.3	1.3	5.8	6.3	11.1	.0	.0	.0	37.0
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	15.9	.3	.9	4.8	3.3	3.4	8.0	19.2	.0	.0	.0	56.3
	TOT %	15.9	.3	.9	4.8	3.3	3.4	8.0	19.2	.0	.0	.0	56.3
TOT OBS													170
TOT PCT		29.0	1.7	3.1	3.7	5.1	9.2	14.2	31.4	.0	.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	22+	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	2.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.3	.0	.0	1.0	.0	.0	.0	1.3
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.3	.0	.0	.3	.3	.0	.0	1.0	.0	.0	.0	2.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.0
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	1.0	.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.7
5<10	0-3	.0	.3	.2	.2	.0	.0	.0	.0	.0	.3	.0	1.4
	4-10	2.2	.7	1.2	.0	.2	1.4	2.7	2.7	.0	.0	.0	11.1
	11-21	1.8	.3	.0	.2	1.2	1.4	1.9	4.0	.0	.0	.0	11.1
	22+	3.7	.0	.0	.0	.4	2.3	.7	3.8	.0	.0	.0	10.1
	TOT %	7.7	1.7	1.4	.3	1.8	3.4	3.3	9.4	.0	.3	.0	33.8
10+	0-3	.0	.0	.3	.0	.2	.2	.3	.0	.0	1.9	.0	3.4
	4-10	.8	1.0	.2	1.2	1.1	1.0	3.1	3.1	.0	.0	.0	11.6
	11-21	7.2	1.2	.0	3.4	1.2	2.9	4.6	6.9	.0	.0	.0	29.0
	22+	9.9	.0	.0	.0	.7	1.7	1.2	3.4	.0	.0	.0	13.0
	TOT %	14.0	2.2	.7	4.6	3.3	3.8	9.4	17.0	.0	1.9	.0	58.9
TOT OBS													207
TOT PCT		25.6	4.3	2.7	5.3	5.6	11.7	14.7	27.4	.0	2.4	100.0	

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973AREA 0014 RAMSON
43.75 60.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	7.1	.0	3.6	3.6	.0	7.1	21.4	78.6	28
06009	.0	.0	.0	.0	.0	8.3	8.3	.0	.0	8.3	25.0	75.0	12
12015	.0	.0	.0	13.6	4.5	4.5	.0	9.1	.0	36.4	63.6	36.4	22
18021	.0	.0	.0	5.0	5.0	7.3	7.3	5.0	.0	34.6	65.4	34.6	40
TOT	0	0	0	5	5	5	6	3	2	7	33	69	102
PCT	0	.0	.0	4.9	4.9	4.9	5.9	2.9	2.0	6.9	32.4	67.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	1.7	.0	1.7	37.3	59.3	99
06009	.0	.0	.0	3.4	41.4	55.2	29
12015	9.0	3.3	.0	1.7	40.0	50.0	60
18021	4.0	3.3	.0	1.6	23.0	67.2	61
TOT	6	5	0	4	72	122	209
PCT	2.9	2.4	.0	1.9	34.4	58.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	22.2	77.8	27
06009	.0	.0	.0	25.0	75.0	12
12015	.0	.0	13.6	22.7	63.6	22
18021	.0	.0	3.0	33.0	60.0	40
TOT	0	0	3	28	68	101
PCT	.0	.0	3.0	27.7	67.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.0	.0	.0	1.5	.0	.0	3	2.3
39/54	.0	.0	.0	.0	2.3	5.3	4.5	1.5	10	13.3
45/49	.0	.0	.0	.0	3.0	6.8	17.3	20.3	63	47.4
49/44	.0	.0	.0	.0	4.5	5.3	12.0	11.3	43	33.0
39/39	.0	.0	.0	.0	.0	.0	2.3	.0	4	3.0
TOTAL	0	0	0	2	13	28	48	44	133	100.0
PCT	.0	.0	.0	1.5	9.8	19.5	36.1	33.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.3	.0	.0	.0	.0	.0	1.3	6.0	.0	.0
12.6	.2	1.3	.9	.9	4.7	6.4	20.1	.0	.0
3.8	.0	.0	2.4	2.1	7.0	8.3	6.0	.0	.0
.0	.0	.0	1.1	.8	.4	.8	.0	.0	.0
24.4	.9	2.3	4.3	3.8	13.0	17.3	33.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	36	33	30	43	38	36	34	44.6	330
06009	36	32	30	43	38	36	34	44.3	276
12015	39	34	32	43	39	36	31	43.3	747
18021	38	33	32	46	39	37	31	46.0	302
TOT	39	34	31	43	38	36	31	43.1	1875

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	10.3	18.4	31.6	36.8	83	38		
06009	.0	.0	9.5	23.8	28.6	38.1	83	21		
12015	.0	.0	8.1	24.3	33.1	32.4	83	37		
18021	.0	2.6	10.3	13.2	44.7	28.9	83	38		
TOT	0	2	13	26	48	43	84	134		

JULY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1867-1973

TABLE 17

AREA 0014 RANSON
43.75 60.8WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	1.1	.6	3	.0	1.7
9/10	.0	.0	.0	1.1	.0	.0	2	.0	1.1
7/8	.0	.0	.6	1.1	.6	.0	4	.6	1.7
6	.0	.0	.6	.6	1.1	.0	4	.0	2.3
5	.0	.0	4.6	4.0	2.3	.0	19	1.7	9.1
4	.0	.6	2.9	4.0	.6	.0	14	.6	7.4
3	.0	1.7	6.9	5.7	1.1	.0	27	2.9	12.6
2	.0	2.3	7.4	2.9	.6	.0	23	2.3	10.9
1	.6	4.6	3.4	1.1	.6	.0	18	1.1	9.1
0	.0	8.6	3.4	.0	.0	.0	21	1.7	10.3
-1	.6	3.4	2.3	.6	.0	.0	12	.6	6.3
-2	.0	3.4	2.9	.0	.0	.0	11	.6	5.7
-3	.6	.0	1.7	.0	.0	.0	4	.0	2.3
-4	.0	2.3	.0	.0	.0	.0	4	.0	2.3
-5	1.1	2.3	.0	.0	.0	.0	6	.0	3.4
-6	1.1	.0	.0	.0	.0	.0	2	.0	1.1
-7/-8	.0	.6	.0	.0	.0	.0	1	.0	.6
TOTAL	7		64		14		175	21	134
PCT	4.0	29.7	36.6	21.1	8.0	.6	100.0	12.0	88.0

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	3.0	.0	.0	.0	4.7	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.3	1.7	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.3	4.7	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	4.2	3.0	.0	.0	7.2	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	7.6	1.7	.0	.0	9.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	12.3	22.3	1.7	.0	38.1	.0	.0	2.3	.0	.0	.0	2.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	2.3	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0014 RAMSON
43.75 60.8W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	2.5	.0	.0	.0	3.8	.0	.8	1.7	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.5	.0	.0	.0	3.8	.0	.8	2.1	.0	.0	.0	3.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	1.3	.0	1.7	5.9	.0	.0	.0	7.6	.0
3-4	.0	1.3	1.3	.0	.0	.0	2.5	.0	.0	4.2	1.7	.0	.0	9.9	.0
5-6	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	7.2	5.1	.0	.0	12.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.8	.0	.0	5.9	.0
8-9	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.4	2.1	.0	.0	2.5	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	7.2	.0	.0	.0	8.5	.0	1.7	19.9	16.3	.0	.0	38.1	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	.0	.0	.0	.0	.0	1.7	
1-2	.0	9.1	11.9	.0	.0	.0	18.9	
3-4	.0	3.4	13.6	1.7	.0	.0	18.6	
5-6	.0	.0	13.6	8.8	.0	.0	20.3	
7	.0	.0	3.4	8.5	.0	.0	11.9	
8-9	.0	.0	6.8	5.1	.0	.0	11.9	
10-11	.0	.0	.0	8.5	1.7	.0	10.2	
12	.0	.0	.0	8.5	.0	.0	8.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	8.5	49.2	39.0	1.7	.0	100.0	59

PERIOD: (OVER-ALL) 1952-1973

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.4	8.0	12.5	1.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	5
6-7	.0	.0	9.1	4.3	8.0	10.2	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
8-9	.0	.0	2.3	2.3	4.3	1.1	5.7	3.4	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	21	9
10-11	.0	.0	.0	1.1	1.1	.0	1.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDRY	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
TOTAL	0	3	17	19	13	14	9	7	3	0	1	0	0	0	0	0	0	0	0	88	7
PCT	.0	3.4	19.3	21.6	17.0	13.9	10.2	8.0	3.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	4.8	2.4	7.2	.0	.0	.0	85.5
NE	15.1	.0	.0	.0	.0	.0	.0	15.1	.0	.0	24.0	.0	.0	.0	50.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
SE	16.7	.0	.0	.0	.0	.0	.0	16.7	16.7	.0	.0	.0	.0	.0	66.7
S	17.0	.0	.0	.0	.0	.0	.0	17.0	.0	.0	.0	.0	.0	.0	83.0
SW	.0	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	11.8	.0	.0	.0	82.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.1	.0	.0	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.3	.0	.7	.0	.0	.0	.0	4.2	1.4	.7	6.9	.0	.0	.0	86.8
TOT OBS:	144														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	2.6	.0	.0	.0	.0	.0	.0	2.6	3.1	2.6	7.7	.0	.0	.0	82.1
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	94.4
1200	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	4.7	.0	.0	.0	86.4
1800	3.3	.0	3.3	.0	.0	.0	.0	6.7	3.3	.0	10.0	.0	.0	.0	80.0
TOT PCT TOT OBS:	3.4 148	.0	.7	.0	.0	.0	.0	4.1	2.0	.7	6.8	.0	.0	.0	86.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.2	3.3	4.3	2.6	.7	.1		11.3	16.3	11.9	11.6	12.0	10.2	12.0	10.9	11.3	11.3	
NE	.7	2.2	1.6	.4	.1	.0		4.9	10.9	6.9	4.4	3.7	2.9	4.3	5.3	6.3	5.3	
E	1.1	1.0	1.3	.1	.0	.0		3.6	9.1	4.1	3.3	.0	3.3	2.7	3.2	13.8	9.3	
SE	1.0	2.4	2.6	.3	.0	.0		6.3	11.2	6.9	5.0	.9	5.8	7.8	6.7	10.0	6.8	
S	.8	3.0	2.8	1.2	.4	.4		8.6	15.6	9.1	9.2	5.3	6.6	8.1	9.2	.0	9.6	
SW	1.1	4.1	6.0	3.5	1.3	.1		16.2	17.1	16.4	17.1	12.0	15.0	15.3	16.1	10.0	18.1	
W	1.7	6.9	9.0	3.6	1.0	.2		22.3	15.0	20.3	22.8	29.6	25.7	21.4	22.7	23.8	20.8	
NW	1.3	6.2	9.7	6.0	1.2	.1		24.3	16.3	23.3	23.2	28.7	27.9	24.8	23.0	23.0	21.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9	.0	.0	.0	.0	.0		1.9	.0	.8	1.3	3.7	2.7	1.6	2.9	.0	.9	
TOT OBS	183	489	628	299	79	14	1672		15.0	243	228	27	226	250	450	20	228	
TOT PCT	9.7	29.2	37.6	17.9	4.7	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18		
										03	09	15	21	
N	1.9	4.2	3.5	1.3	.1		11.3	16.3	11.8	10.4	11.3	11.3		
NE	1.6	2.3	.6	.3	.0		4.9	10.9	3.7	3.0	3.0	3.3		
E	1.7	1.2	.8	.0	.0		3.6	9.1	3.7	3.0	3.0	3.9		
SE	2.4	2.3	1.3	.3	.0		6.3	11.2	4.0	3.2	7.1	7.1		
S	2.3	3.0	1.8	.9	.3		8.6	15.6	9.1	6.9	6.8	8.9		
SW	2.3	3.6	3.4	2.1	.6		16.2	17.1	16.7	14.7	13.9	17.4		
W	4.1	9.3	6.3	1.8	.6		22.3	15.0	21.6	26.1	22.2	21.1		
NW	3.2	9.7	6.2	3.3	.2		24.3	16.3	24.3	28.0	24.3	22.0		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.9						1.9	.0	1.1	2.8	2.4	.8		
TOT OBS	344	632	473	170	33	1672		15.0	471	233	700	248		
TOT PCT	21.8	37.8	28.3	10.2	2.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.1	8.9	26.8	35.1	20.0	3.4	.8	15.1	100.0	471
0400	2.8	7.9	33.2	41.4	17.0	5.3	1.2	14.8	100.0	253
1213	2.4	7.4	29.7	37.7	16.1	6.0	.6	15.0	100.0	700
1821	.8	7.3	28.6	39.5	19.8	2.8	1.2	15.2	100.0	248
TOT	31	132	489	628	299	79	14	15.0		1472
PCT	1.9	7.0	29.2	37.6	17.9	4.7	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.4	1.8	2.1	2.4		3.3
NE	1.3	.3	.0	1.3		4.0
E	.0	.9	.6	2.1		6.8
SE	.0	.0	1.8	4.2		7.5
S	.9	.6	3.0	4.8		6.3
SW	8.6	.6	2.1	1.8		2.5
W	11.6	2.4	9.2	.9		3.0
NW	11.3	3.0	9.8	3.9		4.0
VAR	.0	.0	.0	.0		.0
CAL	1.2	.0	.0	.0		.0
TOT OBS	34	8	24	18	84	4.0
TOT PCT	40.3	9.9	28.6	21.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <3/8 BY WIND DIRECTION

000	130	300	600	1000	2000	3500	5000	6500	8000+	NM <3/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	OBS
.0	.0	.0	.0	2.1	.0	.6	.0	.0	.0	8.9	
.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	1.8	
.0	.0	.0	1.2	.9	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	3.0	.0	.0	.0	.0	1.2	1.8	
.0	.0	.0	.0	3.9	1.8	.0	.0	.0	.0	3.6	
.0	.0	.0	1.2	.3	.6	.0	.0	.0	.0	11.0	
.0	.0	.9	1.2	1.2	2.4	.0	.0	.0	.0	18.5	
.0	.0	.3	.0	3.9	3.6	3.0	.0	.0	.0	17.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
.0	.0	1	3	14	7	3	0	0	1	33	84
.0	.0	1.2	3.6	16.7	8.3	3.6	.0	.0	1.2	63.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >9	= OR >8	VSBY (NM)				= OR >5/8	= OR >5/4	= OR >5/2
				= OR >1	= OR >1/2	= OR >1/4	= OR >5/16			
= OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
= OR >1000	22.7	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
= OR >600	23.9	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
= OR >300	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
= OR >150	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
= OR >0	25.0	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
TOTAL	22	30	30	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 84

PCT FREQ NM <3/8: 63.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
34.3	10.1	11.1	7.1	2.0	4.0	7.1	4.1	18.2	.0	99

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	1.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	2.7
	TOT %	.3	1.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	2.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
2<5	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	NO PCP	.7	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4	1.4
	TOT %	.7	.7	.0	.0	.0	.0	.7	.0	.0	.0	2.1	2.1
5<10	PCP	.0	.0	.0	.0	1.4	.7	.0	.0	.0	.0	.7	2.1
	NO PCP	5.0	3.5	2.1	1.7	3.5	2.4	9.7	4.0	.0	.0	31.9	31.9
	TOT %	5.0	3.5	2.1	1.7	4.9	3.1	9.7	4.0	.0	.0	34.0	34.0
10+	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	.7
	NO PCP	8.3	3.3	1.4	1.7	3.3	7.3	16.0	17.7	.0	.7	59.7	59.7
	TOT %	8.3	3.3	1.4	2.4	3.3	7.3	16.0	17.7	.0	.7	60.4	60.4
TOT OBS													144
TOT PCT		14.4	9.2	3.5	4.2	8.2	11.8	23.7	22.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.2	.0	.9	.0	.0	.0	.0	1.3	.0
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.7	.2	.2	.0	.9	.0	.0	.0	.0	2.2	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0
	TOT %	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0
1<2	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0
	22+	.0	.4	.0	.0	.0	.2	.2	.0	.0	.0	.9	.0
	TOT %	.0	.4	.4	.0	.0	.7	.2	.0	.0	.0	1.8	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	.0
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0
	11-21	.7	.4	.0	.0	.0	.0	.0	.7	.0	.0	1.8	.0
	22+	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.9	.0
	TOT %	1.1	.9	.0	.0	.4	.0	.0	1.5	.0	.0	4.0	.0
5<10	0-3	.2	.2	.0	.0	.0	.9	.0	.4	.0	.0	1.8	.0
	4-10	.2	1.3	.4	.9	.0	.4	.0	2.2	.0	.0	5.7	.0
	11-21	1.3	1.1	.9	.0	2.2	.0	6.8	2.0	.0	.0	14.3	.0
	22+	2.1	.0	.0	.2	2.2	2.4	1.1	.8	.0	.0	8.8	.0
	TOT %	4.1	2.9	1.3	1.1	4.4	3.7	7.9	5.4	.0	.0	30.8	.0
10+	0-3	.0	.4	.0	.0	.0	1.3	.4	.0	.0	1.8	4.0	.0
	4-10	1.8	1.8	.0	.7	1.2	1.7	3.0	3.6	.0	.0	12.7	.0
	11-21	2.6	1.2	.9	1.3	3.0	3.1	6.3	7.6	.0	.0	28.2	.0
	22+	2.0	.0	.0	.0	3.4	3.9	3.7	1.5	.0	.0	14.5	.0
	TOT %	6.4	3.4	.9	2.2	7.6	10.6	14.3	13.2	.0	1.8	60.4	.0
TOT OBS													227
TOT PCT		11.8	8.3	2.9	3.5	12.4	13.9	23.3	20.2	.0	1.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	21.1	5.3	5.3	.0	.0	5.3	36.8	63.2	19
06009	.0	.0	.0	3.7	18.5	11.1	3.7	.0	.0	.0	37.0	63.0	27
12015	.0	.0	.0	.0	19.2	3.8	.0	.0	.0	.0	23.1	76.9	26
18021	.0	.0	4.3	9.1	4.5	9.1	4.5	.0	.0	.0	31.8	68.2	22
TOT	0	0	1	3	15	7	3	0	0	1	30	64	94
PCT	.0	.0	1.1	3.2	16.0	7.4	3.2	.0	.0	1.1	31.9	68.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.0	2.9	.0	5.7	38.6	52.9	70
06009	2.0	.0	2.0	.0	29.4	66.7	51
12015	3.0	.0	1.5	4.3	28.4	62.7	67
18021	4.7	.0	4.7	4.7	20.9	65.1	43
TOT	9	2	4	9	70	14	231
PCT	2.2	.9	1.7	3.9	30.3	61.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGE OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 3+	TOTAL OBS
00003	.0	.0	.0	41.2	98.8	17
06009	.0	.0	4.0	36.0	60.0	25
12015	.0	.0	.0	24.0	76.0	25
18021	.0	4.8	14.3	19.0	66.7	21
TOT	0	1	4	26	58	88
PCT	.0	1.1	4.3	29.3	65.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.0	.0	.0	.0	.0	.0	1	.8
30/34	.0	.0	.0	2.4	1.6	4.0	6.3	.8	19	15.1
43/49	.0	.0	.0	.8	.0	16.7	20.6	8.7	39	46.8
40/44	.0	.0	.0	3.2	3.2	6.3	9.5	11.1	42	33.3
33/39	.0	.0	.0	.0	.0	.8	.8	2.4	5	4.0
TOTAL	0	0	0	8	4	35	48	29	126	100.0
PCT	.0	.0	.0	6.3	4.8	27.8	38.1	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.6	.4	.8	.0	.0	1.6	3.0	4.0	.0	.0
11.1	4.2	1.4	1.6	1.4	2.0	13.7	10.7	.0	.8
.4	2.4	1.2	2.4	4.4	2.4	11.9	8.3	.0	.0
.0	.8	.0	.0	3.2	.0	.0	.0	.0	.0
17.1	7.7	3.2	4.0	8.9	6.0	28.6	23.8	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	34	32	49	44	39	35	30	44.2	460
06009	33	32	49	44	39	34	31	44.2	253
12015	34	33	51	45	40	34	33	45.4	685
18021	60	34	32	45	40	36	34	45.6	241
TOT	60	34	50	45	39	36	30	44.9	1639

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	7.8	36.1	36.1	16.7	80	36		
06009	.0	6.1	15.2	24.2	36.4	18.2	79	33		
12015	.0	5.6	.0	25.0	38.9	30.6	63	34		
18021	.0	4.0	.0	24.0	48.0	24.0	64	29		
TOT	0	8	6	36	51	29	81	130		

AUGUST

PERIOD: (PRIMARY) 1963-1975
(OVER-ALL) 1969-1975AREA 0014 RAMSON
42.85 60.4W

TABLE 17

PCT PRPG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	TOT	N FOG	MO FOG
11/13	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	.7	.7	2	.0	1.4
6	.0	.0	.0	1.4	.0	2	.0	1.4
5	.0	.0	.7	2.8	.0	5	.0	3.5
4	.0	.7	6.3	2.8	.0	14	.7	9.2
3	.0	.7	4.9	2.8	.0	12	.7	7.7
2	.0	2.8	10.6	2.8	.7	24	.7	16.2
1	.7	5.6	6.3	.0	.7	19	.7	12.7
0	.0	8.5	9.2	2.1	.0	28	2.8	16.9
-1	.7	4.2	2.1	.0	.0	10	.7	6.3
-2	.0	3.5	2.8	.7	.0	10	.0	7.0
-3	1.4	2.8	.7	.7	.0	8	.7	4.9
-4	.0	.0	.7	.0	.0	1	.0	.7
-5	.0	1.4	.0	.0	.0	1	.0	1.4
-6	2.1	.0	.0	.0	.0	3	.0	2.1
TOTAL	7	43	63	24	5	142	10	192
PCT	4.9	30.3	44.4	16.9	3.5	100.0	7.0	93.0

PERIOD: (OVER-ALL) 1963-1975

TABLE 18

PCT PRPG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.8	.0	.0	.0	3.8	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	2.6	.6	.0	.0	.0	3.2
5-6	.0	2.6	.0	8.3	.0	.0	10.9	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.9	.0	.0	1.9	7	.0	2.6	.0	.0	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	3.8	10.9	.0	.0	16.7	TOT PCT	.0	5.1	.6	.0	.0	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.9	.0	.0	.0	1.9	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.6	.0	.0	.0	2.6	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	.0	.0	.0	2.6	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	1.3	.0	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	7.1	.0	.0	.0	7.1	TOT PCT	.0	.0	.0	1.3	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1975

AUGUST

AREA 0014 RANSON
43.85 60.4W

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	3.2	.0	.0	.0	.0	3.2	4.5
3-4	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	2.6	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	.0	6.4	.0	.0	10.9	.0	3.2	2.6	.0	.0	.0	5.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	7.7	1.9	.0	.0	.0	.0	9.6	.0	.0	.0	.0	.0	.0	.0	9.6
1-2	.0	.0	1.9	.0	.0	.0	1.9	.0	2.6	1.9	.0	.0	.0	4.5	4.5
3-4	.0	2.6	.0	.0	.0	.0	2.6	.0	2.6	7.7	2.6	.0	.0	12.8	12.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.6	1.9	.0	.0	7.1	7.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	2.2	.0	.0	5.8	5.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	2.6	2.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.7	4.5	1.9	2.6	.0	.0	16.7	.0	8.3	17.3	7.7	.0	.0	33.3	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.6	2.4	.0	.0	.0	.0	17.1	17.1
1-2	.0	9.8	7.3	.0	.0	.0	17.1	17.1
3-4	.0	7.3	12.2	2.4	.0	.0	22.0	22.0
5-6	.0	4.9	4.9	12.2	.0	.0	22.0	22.0
7	.0	2.4	4.9	4.9	.0	.0	12.2	12.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	2.4	2.4	.0	.0	4.9	4.9
12	.0	.0	.0	4.9	.0	.0	4.9	4.9
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	14.6	26.8	31.7	26.8	.0	.0	100.0	41

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	7.7	19.4	9.0	5.1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	4
6-7	.0	.0	3.8	12.8	6.4	5.1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	.0	3.8	.0	2.6	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	.0	.0	.0	.0	1.3	.0	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
12-13	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	2.6	1.3	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
TOTAL	2	7	16	20	10	9	6	3	3	0	0	0	0	0	0	0	0	0	0	78	6
PCT	2.6	9.0	20.5	23.6	12.8	11.5	7.7	6.4	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1862-1972

AREA 0014 RAMSON
43.75 61.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRA/BLWG DUST	NO SIG MEA
N	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	6.4	.0	.0	.0	92.6
NE	10.5	.0	.0	.0	.0	.0	.0	10.5	.0	.0	11.8	.0	.0	.0	77.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.4	.0	.0	.0	82.6
SE	8.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	18.0	.0	.0	.0	74.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	93.6
SW	3.1	.0	.0	.0	.0	.0	.0	3.1	7.1	1.6	.0	.0	.0	.0	88.2
W	3.9	.0	.0	.0	.0	.0	.0	3.9	2.9	5.9	7.8	.0	.0	.0	79.4
NW	.0	3.5	.9	.0	.0	.0	.0	4.4	3.5	.0	7.0	.0	.0	.0	85.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	20.0	.0	.0	60.0
TOT PCT	2.3	.5	.5	.0	.0	.0	.0	3.2	1.8	.9	7.7	.5	.0	.0	85.9
TOT OBS:	220														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	P'PN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.6	5.4	.0	.0	.0	89.3
0600	4.1	.0	.0	.0	.0	.0	.0	4.1	.0	.0	8.2	2.0	.0	.0	83.7
1200	5.2	.0	.0	.0	.0	.0	.0	5.2	1.7	.0	6.9	.0	.0	.0	86.2
1800	.0	1.7	1.7	.0	.0	.0	.0	3.4	3.4	.0	10.2	.0	.0	.0	83.1
TOT PCT TOT OBS:	2.3 222	.5	.5	.0	.0	.0	.0	3.2	1.8	.9	7.7	.5	.0	.0	86.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	5.4	7.0	2.8	.5	.0		16.8	14.7		16.3	15.2	35.1	17.3	20.2	13.4	34.8	13.2
NE	1.0	4.0	1.7	.5	.0	.0		7.1	9.7		8.2	5.8	4.8	6.5	5.7	7.9	6.9	8.0
E	.7	1.9	.7	.3	.2	.0		3.9	10.9		5.8	1.9	2.4	1.9	4.7	2.8	7.8	6.4
SE	.9	3.4	2.2	.8	.3	.1		7.2	12.7		7.5	6.9	6.0	9.0	7.7	6.7	5.9	6.3
S	1.1	3.9	2.8	1.1	.5	.1		9.4	13.0		10.1	10.9	3.0	10.2	8.5	10.1	3.9	8.6
SW	1.3	4.5	9.7	2.3	.6	.3		14.8	19.1		13.3	13.7	20.2	13.7	14.5	13.9	7.8	15.6
W	1.0	6.4	6.4	1.8	.3	.1		16.0	12.9		14.0	17.0	8.9	13.8	16.0	18.3	12.7	17.4
NW	1.2	7.7	7.8	3.6	.9	.1		21.4	14.7		20.3	24.2	14.9	23.8	20.0	22.1	16.2	20.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		4.6	4.3	4.8	1.9	2.6	2.8	3.9	4.1
TOT OBS	193	640	990	229	58	10	1720		13.2		260	293	42	214	267	435	31	219
TOT PCT	11.2	37.2	34.3	13.3	3.4	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	09	12	18
N	3.1	7.0	5.2	1.3	.2		16.8	14.7		15.8	20.2	16.1	17.3		
NE	2.3	3.3	1.2	.1	.0		7.1	9.7		7.0	6.3	7.1	7.8		
E	1.5	1.6	.4	.3	.1		3.9	10.9		4.0	2.0	3.5	6.7		
SE	2.2	2.8	1.6	.4	.1		7.2	12.7		7.2	8.5	7.1	6.2		
S	3.3	3.4	1.6	.8	.3		9.4	13.0		10.5	9.0	9.5	7.7		
SW	5.7	3.6	3.3	1.5	.7		14.8	19.1		13.5	16.4	15.3	14.1		
W	2.8	7.8	3.5	.7	.2		16.0	12.9		15.4	13.0	17.4	16.5		
NW	4.5	9.0	6.1	1.5	.5		21.4	14.7		22.2	22.4	21.3	19.3		
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0		
CALM	3.4						3.4	.0		4.3	2.3	2.7	4.1		
TOT OBS	478	695	397	114	36	1720		13.2		493	236	702	269		
TOT PCT	27.8	40.4	23.1	6.6	2.1		100.0			100.0	100.0	100.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1862-1972

AREA 0014 RAWSDN
43.75 61.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT REQ	TOTAL OBS
0000	4.5	10.3	40.2	28.0	13.2	3.4	.4	12.3	100.0	493
0600	2.3	7.0	38.3	33.2	14.1	4.3	.8	13.6	100.0	256
1200	2.7	7.0	34.5	38.6	13.7	3.0	.6	18.7	100.0	702
1800	4.1	6.3	37.9	35.7	11.9	3.3	.7	18.0	100.0	269
TOT	98	133	640	590	229	58	10	12.2		1720
PCT	3.4	7.8	27.2	34.3	13.3	3.4	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-10	TOTAL OBS	MEAN CLOUD COVER
N	9.3	6.7	12.1	8.1		4.5
NE	3.2	.4	3.2	4.2		4.8
E	2.3	.0	.0	1.4		3.9
SE	1.2	.0	.0	2.1		3.1
S	1.2	.0	1.1	2.3		3.4
SW	3.3	3.6	2.3	2.8		4.1
W	0.3	1.4	1.2	1.2		2.4
NW	7.7	2.1	1.8	1.8		2.7
CALM	.0	.0	.0	.0		7.0
TOT OBS	32	23	32	36	142	4.0
TOT PCT	16.6	16.2	22.5	24.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM ANY HGT	TOTAL OBS
N	.7	.0	.5	.5	4.9	4.4	2.6	.0	.0	.5	22.0	
NE	1.4	.0	1.4	.0	3.5	.0	.2	.0	.0	.0	4.4	
E	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.3	
SE	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	1.9	
S	1.2	.0	.5	.5	.0	.5	.0	.0	.0	.5	1.8	
SW	.2	.0	.7	.9	.0	1.6	.0	.0	.0	.2	10.7	
W	.0	.0	.0	.0	.0	.5	.0	.7	.0	.0	10.9	
NW	.0	.0	.9	.2	.7	1.4	.0	.0	.0	.2	10.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	5	0	3	3	15	14	5	1	0	3	91	142
TOT PCT	3.5	.0	3.3	2.1	10.6	9.9	3.4	.7	.0	2.1	64.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM) OR >1	OR >1/2	OR >1/4	OR >30YD	OR >0
OR >8000	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
OR >6000	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
OR >4000	3.0	3.0	3.8	3.8	3.8	3.8	3.8	3.8
OR >2000	10.8	13.1	13.8	13.8	13.8	13.8	13.8	13.8
OR >1000	18.3	23.2	23.9	23.9	26.6	26.6	26.6	26.6
OR >800	18.0	26.6	27.3	27.3	28.0	28.0	28.0	28.0
OR >600	18.7	27.3	29.3	30.9	32.4	32.4	32.4	32.4
OR >400	18.7	27.3	29.3	30.9	32.4	32.4	32.4	32.4
OR >200	20.1	28.8	30.9	33.1	34.3	36.0	36.0	36.0
TOTAL	28	40	43	46	48	50	50	50

TOTAL NUMBER OF OBS: 139

PCT FREQ NM <5/8: 64.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	UNSCD	TOTAL OBS
	33.8	6.6	9.9	8.4	3.3	4.0	9.3	4.6	13.6	2.0	141

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1862-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	TOT %	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.9
1<2	PCP	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
2<5	PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	4.1	.6	.9	.9	.5	.5	.5	.0	.0	.0	.0	8.5
	TOT %	4.1	1.1	.9	.9	.5	.5	.5	.0	.0	.0	.0	8.5
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.6	.9	.7	1.4	.5	2.6	2.8	2.9	.0	.0	.0	24.5
	TOT %	12.6	.9	.7	1.4	.5	2.6	2.8	2.9	.0	.0	.0	24.5
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	17.6	5.5	2.5	2.2	3.9	11.4	7.8	9.4	.0	1.4	1.4	61.8
	TOT %	17.6	5.5	2.5	2.2	3.9	11.4	7.8	9.4	.0	1.4	1.4	61.8
TOT OBS													312
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.8
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.8	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
	TOT %	.3	.4	.0	.0	.0	.0	.0	.5	.0	.4	.0	1.7
2<5	0-3	.2	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.8
	4-10	.3	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	2.5	.4	1.3	.0	.0	.4	.4	.0	.0	.0	.0	5.3
	22+	.8	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	2.1
	TOT %	3.9	.9	1.7	.8	.4	.4	.4	.6	.0	.4	.0	9.7
5<10	0-3	.6	.2	.0	.0	.0	.0	.0	.0	.9	.4	.0	1.3
	4-10	2.7	1.1	.6	1.1	.0	.3	1.8	.8	.0	.0	.0	6.4
	11-21	4.8	.1	.0	.2	.4	1.1	.2	.7	.0	.0	.0	7.6
	22+	4.1	.7	.0	.0	.0	.9	.5	1.3	.0	.0	.0	7.6
	TOT %	12.3	2.1	.6	1.3	.4	2.3	2.5	2.8	.0	.4	.0	24.8
10+	0-3	.0	.6	.6	.0	.4	.0	.0	.0	1.3	.0	.0	2.9
	4-10	7.0	2.4	1.8	1.8	1.3	3.3	2.6	3.8	.0	.0	.0	24.4
	11-21	6.3	2.0	.0	1.9	1.8	7.2	4.0	4.3	.0	.0	.0	26.9
	22+	2.7	.9	.0	.0	.8	1.4	.7	.5	.0	.0	.0	7.1
	TOT %	16.1	6.0	2.4	3.0	4.3	12.1	7.4	8.6	.0	1.3	.0	61.3
TOT OBS													238
TOT PCT													100.0

SEPTEMBER

PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1962-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	3.2	.0	.0	.0	6.5	12.9	.0	3.2	.0	9.7	39.5	64.5	31
0600	.0	.0	4.0	8.0	.0	.0	4.0	.0	.0	.0	16.0	84.0	29
1200	4.4	.0	4.4	2.2	13.6	8.9	.0	.0	.0	.0	39.6	64.4	45
1800	4.3	.0	4.3	.0	12.6	12.8	6.3	.0	.0	.0	42.6	57.4	47
TOT	9	0	5	3	15	14	3	1	0	3	91	97	148
PCT	3.4	.0	3.4	2.0	10.1	9.8	3.4	.7	.0	2.0	34.5	65.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.6	.0	.0	8.2	21.3	68.9	61
0600	.0	2.0	2.0	16.0	28.0	52.0	30
1200	2.9	1.3	1.3	8.8	30.9	54.4	68
1800	1.6	.0	3.3	6.6	19.7	68.9	61
TOT	2	2	4	23	60	147	240
PCT	1.7	.8	1.7	9.6	25.0	61.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	3.6	3.6	7.7	30.8	61.3	26
0600	.0	8.3	20.8	4.2	73.0	24
1200	4.7	11.6	14.0	23.3	62.8	43
1800	4.3	8.7	10.9	34.8	54.3	46
TOT	5	12	18	33	86	139
PCT	3.4	8.6	12.9	23.2	61.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.7	2.7	.0	.7	6	4.1
50/54	.0	.0	.0	.7	3.4	3.4	11.0	3.4	32	21.9
45/49	.0	.0	.0	.7	.7	14.4	24.0	8.2	70	47.9
40/44	.0	.0	.0	.7	3.4	6.6	3.4	11.0	37	25.3
35/39	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
TOTAL	0	0	0	3	12	41	36	34	146	100.0
PCT	.0	.0	.0	2.1	8.2	28.1	24.4	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
35/39	.7	.7	.0	.0	.5	1.0	1.2	.0	.0	.0
50/54	6.8	2.4	1.2	.2	.0	2.7	3.8	2.1	.0	.7
45/49	12.8	2.7	2.1	2.7	3.1	6.3	4.3	12.3	.0	1.4
40/44	1.9	4.1	1.0	2.9	1.9	6.8	3.4	1.9	.0	1.4
35/39	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
TOTAL	23.3	9.9	4.3	5.8	5.5	17.6	14.7	12.4	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	56	52	45	40	38	34	45.4	488
0600	61	56	51	45	40	38	34	45.1	257
1200	64	57	53	47	41	40	36	47.0	677
1800	63	59	55	48	42	40	40	47.9	290
TOT	63	57	53	46	41	39	34	46.4	1672

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	2.3	23.3	44.2	30.2	83	43		
0600	.0	3.0	9.1	27.3	36.4	24.2	82	33		
1200	.0	.0	18.8	29.0	34.4	21.9	81	32		
1800	.0	3.1	9.1	35.9	38.5	19.4	80	39		
TOT	0	3	12	41	37	34	82	147		

SEPTEMBER

PERIOD: (PRIMARY) 1904-1972
(OVER-ALL) 1962-1972

AREA 0014 RAWSON
43.75 61.2W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FCG	NO FOG
14/16	.0	.0	.0	.0	.0	.9	2	.0	.9
11/13	.0	.0	.0	.0	.5	.5	2	.0	.9
9/10	.0	.0	.0	.0	.9	.0	2	.0	.9
7/8	.0	.0	.5	2.8	2.8	.0	13	1.8	4.1
6	.0	.0	.9	2.3	.9	.0	9	.5	3.7
5	.0	.0	.9	6.9	.0	.0	17	.0	7.8
4	.0	.0	8.0	5.0	.5	.0	25	.0	11.5
3	.0	.5	6.9	4.1	.0	.5	26	3.2	8.7
2	.0	2.3	7.8	2.8	.0	.0	28	.9	11.9
1	.0	1.8	8.7	2.9	.5	.0	29	.0	13.3
0	.5	2.8	4.1	1.4	.5	.0	20	.0	9.2
-1	.5	1.4	3.0	.5	.0	.0	16	.5	6.9
-2	.5	4.6	1.8	.0	.0	.0	15	.0	6.9
-3	.5	1.8	.0	.0	.0	.0	5	.0	2.3
-4	.0	1.8	.5	.0	.0	.0	9	.0	2.3
-5	.5	.5	.0	.0	.0	.0	2	.5	.5
-6	.5	.0	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	7	94	94	14	4	218	16	202	
PCT	3.2	17.4	43.1	28.0	6.4	1.8	100.0	7.3	92.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.9	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.9
1-2	.0	4.2	.7	.0	.0	.0	4.9	.0	1.4	.9	.0	.0	.0	2.3
3-4	.0	3.5	2.9	.0	.0	.0	6.0	.0	1.2	.0	.0	.0	.0	1.2
5-6	.0	1.8	8.0	1.9	.0	.0	9.9	.0	.8	1.2	.0	.0	.0	1.4
7	.0	.0	3.5	1.9	.0	.0	5.3	.0	.0	1.2	1.9	.0	.0	3.0
8-9	.0	.0	3.2	3.3	.0	.0	6.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.7	.0	4.8	.0	.0	5.3	.0	.2	.0	.9	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.9	16.0	12.5	.0	.0	39.4	.9	3.0	3.2	2.8	.0	.0	10.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.7	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2
1-2	.9	.7	.9	.0	.0	.0	2.5	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.4	1.9	.0	.0	.0	4.2	.0	2.3	.9	.0	.0	.0	3.7

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0014 RAMSON
43.75 61.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	1.2	.0	.0	.0	.0		1.2
1-2	.0	.0	.0	.0	.0	.0		1.6	.0	.9	1.2	.0	.0	.0		2.1
3-4	.0	.0	.7	.7	.0	.0		1.4	.0	.9	1.2	.2	.7	.0		2.9
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.9	.2	.0	.0		2.1
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.9	.0	.0	.0		.9
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	2.8	.0	.0	.0		2.8
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.9
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	.9	1.4	.7	.0	.0		3.0	.0	3.0	7.9	1.4	.0	.0		12.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.7	.0	.0	.0	.0		.7	.0	.9	.0	.0	.0	.0		.9	
1-2	.0	.7	1.6	.0	.0	.0		2.3	.0	1.2	.5	.0	.0	.0		1.6	
3-4	.0	1.6	.7	.0	.0	.0		2.3	.0	1.2	5.1	.0	.0	.0		6.3	
5-6	.0	.0	.9	.7	.0	.0		1.6	.0	.0	3.0	.9	.0	.0		3.9	
7	.0	.0	.9	.9	.0	.0		1.9	.0	.0	1.9	.9	.0	.0		2.8	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.5	.2	.0	.0		.7	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.9	.0	.0		1.9	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.2	.0	.0		.2	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.0	4.2	1.6	.0	.0		8.8	.0	3.2	10.9	4.2	.0	.0		18.3	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	1.9	4.6	.0	.0	.0	.0	6.5	
1-2	.9	11.1	6.5	.0	.0	.0	18.5	
3-4	.0	8.2	10.2	.9	.0	.0	19.4	
5-6	.0	2.8	13.9	3.7	.0	.0	20.4	
7	.0	.0	8.3	5.6	.0	.0	13.9	
8-9	.0	.0	7.4	3.7	.0	.0	11.1	
10-11	.0	.9	.0	7.4	.0	.0	8.3	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	27.8	46.3	23.1	.0	.0	100.0	108

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	6.6	10.6	8.6	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	3
6-7	.0	.0	1.3	4.6	4.6	7.9	3.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	7
8-9	.0	.0	2.0	1.3	4.6	.7	2.0	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
14-15	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.3	9.3	4.6	3.3	2.6	4.6	3.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	5
TOTAL	3	28	28	28	24	20	14	6	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	5
PCT	3.3	16.6	18.5	18.5	15.9	13.2	9.3	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1907-1974
(OVER-ALL) 1900-1974AREA 0014, RAWSON
43.75 61.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.8	.0	.4	.0	.0	.0	.0	1.1	.4	1.1	9.2	.0	.4	.0	87.8
NE	1.4	.9	.1	.0	.0	.0	.0	3.3	2.0	.0	14.7	.0	.1	.0	79.7
E	11.3	2.2	2.9	.0	.0	.0	.0	17.4	4.2	.0	8.8	.0	.0	.0	69.8
SE	23.3	7.9	4.3	.0	.0	.0	.0	37.8	2.2	.0	2.2	.0	.0	.0	37.9
S	4.6	1.1	1.1	.0	.0	.0	.0	8.8	3.3	.0	2.7	.0	1.1	.0	86.1
SW	1.7	4.1	.0	.0	.0	.0	.0	3.8	1.4	1.4	3.2	.0	.0	.0	88.3
W	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	1.7	.0	.0	.0	97.3
NW	2.6	.0	.0	.0	.0	.0	.0	2.6	.9	.8	12.1	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	2.4	2.4	.0	.0	.0	92.9
TOT PCT	4.1	1.8	.9	.0	.0	.0	.0	6.8	1.6	.6	7.3	.0	.2	.0	83.3
TOT DBS:	1041														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SRRAY BLNG DUST SNOW	NO SIG WEA
0000	3.7	2.4	.0	.0	.0	.0	.0	6.1	2.8	.4	10.8	.0	.4	.0	79.7
0600	3.3	1.6	1.2	.0	.0	.0	.0	8.3	1.2	1.6	4.7	.0	.0	.0	84.2
1200	3.8	.4	.4	.0	.0	.0	.0	4.3	1.9	.4	8.7	.0	.0	.0	84.3
1800	3.3	2.8	1.7	.0	.0	.0	.0	8.0	.7	.0	7.3	.0	.3	.0	83.7
TOT PCT TOT DBS:	4.1 1092	1.8	.9	.0	.0	.0	.0	6.7	1.6	.6	7.8	.0	.2	.0	83.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							40+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47							00	03	06	09	12	15	18	21
N	.3	6.4	7.3	1.6	.2	.0			16.1	13.2		18.2	14.9	23.1	12.8	16.1	12.7	16.7	13.0
NE	.4	4.8	5.2	.8	.0	.0			11.2	12.3		14.0	6.2	20.3	4.1	11.3	7.1	17.1	6.6
E	.4	2.3	3.0	.7	.1	.1			6.6	14.1		8.1	1.9	13.0	3.8	3.8	3.0	8.5	3.1
SE	.3	2.3	1.8	1.0	.3	.2			6.2	17.2		6.8	3.8	7.9	3.9	3.1	6.1	7.1	3.1
S	.6	3.8	3.2	1.1	.8	.1			9.6	13.1		10.7	9.3	3.3	8.3	9.3	11.0	10.1	11.1
SW	1.1	3.3	6.1	1.8	.6	.0			14.9	14.1		13.9	13.9	8.6	13.3	13.4	13.4	16.7	21.0
W	1.2	3.8	3.8	1.1	.3	.0			14.2	12.2		11.3	16.4	7.7	20.4	13.8	18.3	10.3	17.0
NW	1.0	6.7	7.8	1.9	.2	.0			17.3	12.6		13.6	26.2	11.0	26.9	19.3	21.4	7.9	17.0
VAR	.0	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7								3.7	.0		3.3	3.2	2.9	4.1	3.9	3.0	3.3	4.0
TOT DBS	204	842	904	226	62	12	2250			13.0		396	189	238	193	410	367	239	200
TOT PCT	9.1	37.4	40.2	10.0	2.8	.3	100.0					100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40								00	03	06	09	12
N	2.4	9.1	4.0	.4	.1				16.1	13.2		17.2	18.3	14.3	13.1	13.1
NE	1.9	6.6	2.7	.1	.0				11.2	12.3		11.3	13.1	9.3	12.3	
E	1.3	2.9	1.7	.4	.1				6.6	14.1		6.1	8.9	3.4	7.0	
SE	1.4	2.2	1.3	1.0	.3				7.2	17.2		6.3	7.0	3.6	6.2	
S	1.8	4.8	1.6	.9	.4				9.6	13.1		10.3	6.7	10.1	10.3	
SW	3.1	6.8	3.8	.9	.3				14.9	14.1		14.3	10.8	13.4	18.6	
W	3.8	6.8	2.9	.7	.0				14.2	12.2		13.1	13.4	13.9	13.4	
NW	4.1	8.4	4.2	.7	.0				17.3	12.6		17.6	18.2	20.3	11.9	
VAR	.0	.0	.0	.0	.0				.0	.0		.0	.0	.0	.0	
CALM	3.7								3.7	.0		3.2	3.3	3.3	4.8	
TOT DBS	332	1074	300	113	31	2250				13.0		383	433	777	455	
TOT PCT	23.6	47.7	22.2	3.0	1.4							100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.2	6.0	39.9	36.8	10.9	2.7	.9	13.0	100.0	583
0400Z	3.5	4.6	37.4	42.3	10.2	1.8	.2	13.0	100.0	453
1201Z	3.9	5.4	36.4	41.1	10.4	2.7	.3	13.2	100.0	777
1802Z	4.6	5.2	36.9	41.1	9.1	3.7	.4	12.7	100.0	459
TOT	83	121	842	904	226	62	12	13.0		2290
PCT	3.7	5.4	37.4	40.2	10.0	2.8	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.9	3.4	4.4	4.9		4.9
NE	3.4	1.3	3.4	6.5		6.2
E	1.4	.3	2.4	6.1		6.5
SE	.2	1.4	1.0	3.9		6.5
S	1.1	1.0	3.9	2.2		3.6
SW	4.9	4.2	3.9	1.3		3.6
W	4.8	1.4	2.4	.8		3.2
NW	2.4	2.3	3.0	2.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	1.1	.3		3.1
TOT OBS	187	117	180	194	648	5.0
TOT PCT	24.2	16.1	27.8	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4994	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.1	.4	1.0	3.0	.6	.2	.0	.4	11.5	
NE	2.9	.2	.2	1.1	1.9	3.3	1.5	.0	.0	.3	6.3	
E	1.4	.0	.2	.7	3.7	1.9	.3	.0	.0	.0	2.4	
SE	1.0	.0	.2	.7	2.2	.5	.3	.0	.0	.0	1.7	
S	.2	.0	.3	.7	1.9	2.0	.1	.0	.0	.0	3.0	
SW	.7	.0	.0	.2	1.3	1.7	.1	.0	.0	.2	10.3	
W	.3	.0	.0	.0	.3	.8	.7	.0	.0	.2	7.1	
NW	.7	.0	.2	.2	1.3	1.4	.7	.0	.0	.2	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.2	.8	.0	.0	.0	.2	2.3	
TOT OBS	60	1	6	24	91	101	25	1	1	8	328	648
TOT PCT	9.3	.2	.9	4.0	14.0	15.6	3.9	.2	.2	1.2	50.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
>6500	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	.9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>3500	4.1	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5
>2000	11.9	17.7	20.9	20.9	20.9	21.0	21.2	21.2	21.2
>1000	19.1	26.8	33.9	34.3	34.3	34.7	34.8	34.8	34.8
>600	20.6	31.2	37.7	38.3	38.4	38.6	38.8	38.8	38.8
>300	21.0	32.0	38.6	39.2	39.4	39.6	39.7	39.7	39.7
>150	21.0	32.0	38.6	39.4	39.6	39.7	39.9	39.9	39.9
>0	21.0	32.0	42.2	43.2	43.4	43.5	43.2	43.2	43.2
TOTAL	133	202	267	273	274	286	311	311	311

TOTAL NUMBER OF OBS: 632

PCT FREQ NM <5/8: 50.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	13.3	10.3	10.7	7.9	6.9	4.5	7.1	11.2	17.3	6.8	707

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	*	*	*	.0	.0	.0	.0	.5	
	NO PCP	1.1	1.4	.4	.0	.1	.2	.0	.5	.0	.1	3.7	
	TOT %	1.1	1.4	.8	*	.1	.2	.0	.5	.0	.1	4.2	
1/2<1	PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	*	*	*	*	.0	.0	.0	.0	.2	
	TOT %	.0	.0	*	.2	.1	*	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.4	
	TOT %	.1	.0	.2	.3	.1	.0	.0	.1	.0	.0	.9	
2<5	PCP	.1	.4	.7	1.3	.3	.2	.0	.0	.0	.0	3.0	
	NO PCP	2.0	1.2	.9	.7	.4	1.1	.2	.8	.0	.0	7.6	
	TOT %	2.1	1.7	1.6	2.0	.7	1.3	.2	.8	.0	.0	10.6	
5<10	PCP	*	.1	.5	.7	.1	.4	.0	.3	.0	.1	2.2	
	NO PCP	9.1	6.5	2.4	1.4	1.9	3.1	1.8	2.8	.0	.4	25.5	
	TOT %	9.1	6.6	2.9	2.1	2.0	3.5	1.8	3.1	.0	.5	27.7	
10+	PCP	.1	.0	.0	.0	.1	*	.0	.0	.0	.0	.3	
	NO PCP	10.6	6.8	4.2	2.0	3.7	9.1	7.5	6.6	.0	3.5	55.9	
	TOT %	10.7	6.8	4.2	2.0	3.8	9.1	7.5	6.6	.0	3.5	56.2	
TOT OBS													1029
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.0	.0	.0	.0	.1	.0	.1	.4	
	4-10	.3	.3	.2	.0	.1	.3	.0	.4	.0	.0	2.0	
	11-21	.6	.3	.1	.0	*	*	.0	.0	.0	.0	1.6	
	22+	.1	.2	.4	*	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.2	1.3	.8	*	.1	.3	.0	.5	.0	.1	4.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	*	.1	.1	.0	.0	*	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.1	*	*	.0	.0	.0	.0	.2	
	TOT %	*	.0	*	.2	.1	*	.0	*	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	*	.0	.0	.3	
	11-21	.1	.0	.1	.1	.1	.0	.0	*	.0	.0	.3	
	22+	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.4	.0	.2	.3	.1	.0	.0	.1	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	.3	.2	.1	*	.4	.3	.7	.0	.0	2.9	
	11-21	1.0	1.2	.7	.7	.2	.4	.1	.1	.0	.0	4.5	
	22+	*	.3	.7	1.2	.4	.3	*	*	.0	.0	3.2	
	TOT %	2.1	1.8	1.6	1.9	.7	1.3	.3	.8	.0	.0	10.6	
5<10	0-3	.0	.2	.0	.0	.0	.2	.2	*	.0	.3	1.0	
	4-10	2.2	1.6	.3	.6	1.1	.8	.8	1.4	.0	.0	9.0	
	11-21	2.6	4.1	2.0	.8	.8	1.8	.6	1.6	.0	.0	14.3	
	22+	.3	.7	.2	.6	.2	.6	.2	.1	.0	.0	2.8	
	TOT %	5.1	6.5	2.8	2.0	2.0	3.4	1.8	3.1	.0	.3	27.2	
10+	0-3	.4	.2	.0	.1	.1	.2	.1	*	.0	3.5	4.6	
	4-10	4.6	3.6	1.9	1.4	2.8	2.9	3.0	3.1	.0	.0	23.2	
	11-21	3.3	2.6	2.2	.3	2.2	4.6	4.0	3.3	.0	.0	24.8	
	22+	.6	.2	.1	*	.3	1.1	.3	.3	.0	.0	3.3	
	TOT %	11.0	6.7	4.1	2.0	5.6	8.8	7.6	6.8	.0	3.5	56.0	
TOT OBS													1067
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 999	400 1000	500 1999	600 3499	700 4999	800 6499	900 7999	1000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	15.0	.0	.7	2.7	9.5	12.2	3.4	.7	.0	.0	.0	44.2	35.8	147
06009	16.4	.0	.9	2.6	12.1	13.8	1.7	.0	.0	1.7	.0	49.1	50.9	116
12015	5.6	.5	1.0	6.1	20.4	16.8	5.6	.0	.5	1.5	.0	58.2	41.8	196
18021	4.4	.0	.9	3.1	10.2	13.1	3.1	.0	.0	1.3	.0	38.2	61.8	225
TOT	62	1	6	26	91	101	25	1	1	8	.0	322	362	684
PCT	9.1	.1	.9	3.8	13.3	14.8	3.7	.1	.1	1.2	.0	47.1	52.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	5.5	1.2	2.3	16.4	23.8	50.8	236
06009	2.7	.8	.0	14.4	44.4	37.7	287
12015	6.6	.4	.7	6.2	25.2	60.9	274
18021	4.5	.0	1.4	6.3	16.8	70.8	291
TOT	32	6	12	113	293	600	1078
PCT	4.8	.8	1.1	10.7	27.2	59.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 3+	NM <3/8 AND 3+	TOTAL OBS
00003	16.7	18.3	42.3	19.0	48.4	126
06009	18.6	20.6	29.4	24.3	46.1	102
12015	5.3	7.4	18.0	41.3	40.7	189
18021	4.2	5.6	15.8	25.6	58.6	215
TOT	39	70	139	182	311	632
PCT	9.3	11.1	22.0	28.8	49.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.4	.0	.0	.0	.0	.0	.0	1	.4
69/69	1.1	.4	.0	.0	.0	.0	.0	.0	4	1.4
65/64	.0	.0	.4	.4	.7	1.1	.4	.0	8	2.9
59/59	.0	.0	.7	.4	2.2	1.6	.7	.7	18	6.5
50/54	.0	.0	.7	1.4	2.5	5.4	12.9	4.3	76	27.3
49/49	.0	.0	.0	.4	3.2	15.3	15.5	14.4	156	48.9
40/44	.0	.0	.0	.0	1.8	4.0	3.2	3.6	33	12.6
TOTAL	3	2	5	7	29	77	91	64	278	100.0
PCT	1.1	.7	1.8	2.5	10.4	27.7	32.7	23.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.4	.2	.5	.4	.0	.0
.2	.4	1.1	.0	.0	.4	.3	.3	.0	.0
1.7	.0	.0	.0	.2	.4	2.2	2.0	.0	.0
7.3	2.4	.9	.9	1.5	2.8	6.3	5.2	.0	.0
5.8	4.8	4.9	2.6	4.8	8.2	8.8	7.7	.0	1.4
.2	.8	2.0	.8	3.0	4.9	.0	.9	.0	.0
15.1	8.7	8.8	4.3	9.8	17.0	18.1	16.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	61	57	48	41	38	34	48.7	578
06009	60	57	54	48	41	34	34	47.7	435
12015	74	63	58	50	42	39	34	50.1	753
18021	73	66	60	51	43	39	34	51.4	449
TOT	74	62	58	49	42	37	34	49.5	2217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.3	3.8	10.1	34.2	27.8	22.8	80	79		
06009	.0	7.1	8.9	21.4	37.5	23.0	81	56		
12015	1.3	3.8	11.5	21.8	30.8	30.8	81	78		
18021	1.4	5.7	12.9	30.0	34.3	13.7	78	70		
TOT	3	14	31	77	91	67	80	283		

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33	37	41	45	49	53	57	61	65	TOT	W FOG	WD FOG
	30	40	44	48	52	56	60	64	68			
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.1	.5	.3	9	.0	.9
11/13	.0	.0	.0	.0	.0	.0	1.8	1.4	.0	32	.0	3.1
9/10	.0	.0	.0	.0	.0	2.3	2.7	.1	.0	59	.2	5.0
7/8	.0	.0	.0	.0	.0	.8	5.7	2.3	.1	89	.8	7.9
6	.0	.0	.0	.1	.7	2.7	.7	.0	.0	43	.3	3.9
5	.0	.0	.0	.1	4.7	4.3	.5	.0	.0	98	.8	8.8
4	.0	.0	.0	.6	3.0	1.9	.2	.0	.0	79	.6	7.1
3	.0	.0	.1	.8	6.1	1.6	.2	.0	.0	90	1.3	7.5
2	.0	.0	.0	3.6	4.3	.9	.2	.0	.0	94	1.5	7.7
1	.0	.0	.3	3.6	1.9	.8	.0	.0	.0	66	.7	5.8
0	.0	.0	.2	7.5	1.8	.6	.0	.0	.0	103	.7	9.4
-1	.0	.0	.8	5.4	.6	.2	.0	.0	.0	71	.4	6.3
-2	.0	.0	.9	3.2	.8	.0	.0	.0	.0	50	.0	4.9
-3	.0	.0	.8	2.7	.3	.0	.0	.0	.0	41	.2	3.8
-4	.0	.1	.9	2.3	.3	.0	.0	.0	.0	39	.1	3.7
-5	.0	.0	.9	1.0	.4	.0	.0	.0	.0	13	.2	2.0
-6	.0	.0	.1	.6	.0	.0	.0	.0	.0	7	.0	.7
-7/-8	.0	.1	1.2	.1	.0	.0	.0	.0	.0	14	.2	1.2
-9/-10	.0	.8	.1	.0	.0	.0	.0	.0	.0	7	.0	.7
-11/-12	.6	.1	.1	.0	.0	.0	.0	.0	.0	8	.0	.8
-14/-16	.9	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	.9
TOTAL	15	9	64	324	287	213	89	21	4	1026	82	944
PCT	1.8	.9	6.2	31.6	28.0	20.8	8.7	2.0	.4	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.4	.0	.0	.0	.0	1.2	<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.8	.4	.0	.0	.0	3.2	1-2	.0	2.1	.3	.0	.0	.0	2.3
3-4	.0	2.8	3.4	.3	.0	.0	8.7	3-4	.0	1.2	3.2	.3	.0	.0	4.4
5-6	.0	.2	3.7	.2	.0	.0	4.1	5-6	.0	.3	2.5	.2	.0	.0	2.9
7	.0	.0	1.2	.6	.0	.0	1.8	7	.0	.0	2.3	.2	.0	.0	2.5
8-9	.0	.0	.3	.2	.0	.0	.7	8-9	.0	.2	1.3	.6	.0	.0	2.1
10-11	.0	.0	.2	.0	.0	.0	.2	10-11	.0	.0	.2	.3	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.2	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.1	11.3	1.5	.0	.0	19.7	TOT PCT	.0	4.1	9.8	1.8	.0	.0	15.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.4	.4	.0	.0	.0	1.7	1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.4	1.3	.0	.0	.0	1.9	3-4	.0	1.7	.3	.0	.0	.0	2.1
5-6	.0	.2	3.3	.0	.0	.0	3.4	5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	1.0	.8	.0	.0	1.7	7	.0	.0	.1	.3	.0	.0	.3
8-9	.0	.0	.8	.2	.0	.0	1.0	8-9	.0	.0	.2	.2	.2	.0	.6
10-11	.0	.0	.0	.3	.2	.0	.3	10-11	.0	.0	.6	.9	.1	.0	1.3
12	.0	.0	.0	.2	.0	.0	.2	12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.2	.0	.2	13-16	.0	.0	.0	.6	.4	.0	1.0
17-19	.0	.0	.0	.2	.0	.0	.2	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	6.9	1.6	.4	.0	11.1	TOT PCT	.0	2.7	1.8	2.2	.7	.0	7.4

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

AREA 0014 RAMSDN
43.75 61.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	1.2	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	2.0	.3	.0	.0	.0	2.4
3-4	.0	1.1	1.1	.0	.0	.0	2.2	.0	1.9	3.4	.0	.0	.0	5.3
5-6	.0	.2	.8	.8	.0	.0	1.8	.0	.0	2.4	.0	.0	.0	2.6
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.9	.9	.0	.0	1.8
8-9	.0	.0	.0	.0	.2	.0	.2	.0	.0	1.2	2.0	.2	.0	3.4
10-11	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	1.9	1.4	.2	.0	7.4	.0	4.1	8.9	3.7	.2	.0	16.5

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
41	.3	.4	.0	.0	.0	.0	.7	.3	.4	.0	.0	.0	.0	.7	
1-2	.0	1.0	.4	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	1.4	1.2	.0	.0	.0	2.6	.0	.8	2.3	.0	.0	.0	3.0	
5-6	.0	.2	2.6	.2	.0	.0	3.0	.0	.0	1.9	.0	.0	.0	1.9	
7	.0	.0	1.4	.3	.0	.0	1.7	.0	.0	.2	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.0	5.7	.3	.0	.0	9.4	.3	1.9	3.9	.3	.0	.0	6.3	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	8.2	3.8	.0	.0	.0	.0	12.0	
1-2	.0	11.8	1.8	.0	.0	.0	13.6	
3-4	.0	11.0	18.4	.8	.0	.0	30.3	
5-6	.0	1.0	17.2	1.2	.0	.0	19.4	
7	.0	.0	6.8	3.2	.0	.0	10.0	
8-9	.0	.2	4.0	3.4	.6	.0	8.2	
10-11	.0	.7	1.2	1.8	.2	.0	3.4	
12	.0	.0	.0	1.4	.0	.0	1.4	
13-16	.0	.0	.0	.6	.6	.0	1.2	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	28.1	49.5	12.6	1.4	.0	100.0	499

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	3.3	7.9	18.0	10.3	1.9	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	234	4
6-7	.0	1.0	2.1	3.6	5.1	8.8	2.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	7
8-9	.0	.3	2.2	2.6	2.7	.3	.3	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	6
10-11	.0	.0	.7	1.3	.3	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
12-13	.0	.0	.3	.9	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
13-19	.0	.0	.0	.9	.7	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
19-27	4.1	1.4	3.3	2.2	1.4	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
TOTAL	43	63	196	128	76	58	33	13	10	1	0	0	0	0	0	0	0	0	0	983	5
PCT	7.4	10.8	26.8	22.0	15.0	9.9	6.0	2.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1967-1973
(OVER-ALL) 1960-1973AREA 0014 RAWSON
43.75 62.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SP'AY
				FCPN		FRZN		DB TIME	HOURL	LTNG	WD	PCPN	HAZE	DUST
						PCPN					PCPN	PAST HR	BLWG	BLWG
														NO SIG
														WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	1.4	.0	.3	.3
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.1	1.1	.0	.0	.0
E	8.6	.0	1.0	.0	.0	.0	.0	9.6	.0	.0	1.9	.0	.0	.0
SE	11.8	.0	9.2	.0	.0	.0	.0	20.9	.0	.0	6.5	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0
SW	.4	.2	.0	.0	.0	.0	.0	.8	1.6	.0	.3	.0	.0	.0
W	.5	.7	.0	.0	.0	.0	.0	1.2	.0	.8	.8	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.0	.0	.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.1	.4	.0	.0	.0	.0	1.3	.7	.3	1.1	.0	.1	.1
TOT OBS	1409													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	MAIL	PCPN AT	PCPN PAST	THDR	FOG	FOG WD	SMOKE	SPRAY
				FCPN		FRZN		DB TIME	HOURL	LTNG	WD	PCPN	HAZE	DUST
						PCPN					PCPN	PAST HR	BLWG	BLWG
														NO SIG
														WEA
0000	.9	.0	.3	.0	.0	.0	.0	1.2	.3	.0	1.3	.0	.3	.3
0600	.8	.3	.8	.0	.0	.0	.0	1.9	1.4	.8	1.1	.0	.0	.3
1200	1.2	.3	.3	.0	.0	.0	.0	1.8	.9	.3	1.3	.0	.0	.0
1800	.3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.3	.0	.0	.0
TOT PCT	.8	.1	.4	.0	.0	.0	.0	1.3	.7	.3	1.1	.0	.1	.1
TOT OBS	1413													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				00	06	09	12	15	18	21
								OBS	FREQ	SPD							
N	1.2	7.8	6.6	1.2	.2	.0	16.9	11.7	21.7	11.9	21.6	12.4	14.3	11.7	20.8	13.7	13.7
NE	1.0	9.8	3.0	.4	.0	.0	10.2	9.6	14.7	9.7	14.6	8.2	6.1	6.8	11.3	9.3	9.3
E	.4	1.9	1.4	.1	.0	.0	3.8	10.0	9.6	4.4	3.3	3.0	2.4	3.7	3.1	3.3	3.3
SE	.4	1.7	1.4	.2	.1	.0	3.8	11.3	4.3	8.2	1.3	4.9	2.3	3.9	2.7	3.0	3.0
S	.7	3.4	2.6	.7	.1	.1	7.6	11.9	7.7	9.4	2.3	8.3	6.2	11.5	5.1	13.5	13.5
SW	.8	6.3	6.7	1.8	.1	.2	16.2	13.8	10.3	10.3	13.4	14.0	22.0	17.9	20.6	15.1	15.1
W	.9	8.3	9.6	1.3	.3	.0	18.8	11.6	11.3	16.3	13.9	18.0	21.9	21.6	11.1	19.6	19.6
NW	.9	7.6	6.8	2.4	.3	.0	18.1	13.1	15.6	26.0	17.9	22.3	18.3	19.4	12.3	18.9	18.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.3						6.3	.0	8.3	3.7	7.3	6.3	5.2	1.9	12.8	3.5	3.5
TOT OBS	356	1208	858	232	42	8	2804		519	216	368	230	320	373	368	230	230
TOT PCT	12.7	43.1	34.2	8.3	1.5	.3	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL	PCT	MEAN	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	00	06				00	06	09	12	15	18	21
								OBS	FREQ	SPD							
N	4.3	8.8	3.1	.6	.0	.0	16.9	11.7	16.8	17.9	13.9	14.1					
NE	3.8	5.2	1.1	.2	.0	.0	10.2	9.6	13.3	12.0	6.4	10.6					
E	1.2	2.0	.5	.0	.0	.0	3.8	10.0	3.2	4.0	2.9	3.2					
SE	1.1	2.0	.6	.1	.0	.0	3.8	11.3	3.4	2.7	3.9	2.8					
S	2.3	3.2	1.3	.2	.1	.1	7.6	11.9	8.2	4.9	8.4	8.3					
SW	3.4	7.8	3.9	.8	.3	.0	16.2	13.8	10.4	14.9	20.1	13.5					
W	4.9	8.3	2.7	.9	.1	.0	18.8	11.6	12.9	16.7	21.8	14.3					
NW	4.1	8.9	3.9	1.2	.1	.0	18.1	13.1	18.6	19.7	18.8	13.0					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	6.3						6.3	.0	7.1	7.1	3.8	9.2					
TOT OBS	896	1291	488	113	16	8	2804		733	278	893	558					
TOT PCT	32.0	46.0	17.4	4.0	.6	.0	100.0		100.0	100.0	100.0	100.0					

NOVEMBER

PERIOD: (PRIMARY) 1907-1973
(OVER-ALL) 1860-1973

AREA C014 RAMSON
43.75 62.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	7.1	8.4	44.5	32.5	5.9	1.2	.4	10.4	100.0	735
00009	7.1	5.3	42.9	35.1	8.0	1.0	.3	11.1	100.0	578
12015	3.8	5.4	40.1	37.2	10.9	2.5	.2	12.6	100.0	893
18021	9.2	5.4	46.0	30.8	7.7	.8	.2	10.5	100.0	598
TOT	182	174	1208	958	232	42	.8	11.2		2804
PCT	6.3	6.2	43.1	34.2	8.3	1.5	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.8	4.1	7.7	1.7		4.5
NE	2.8	2.8	5.4	1.4		4.5
E	.7	.5	1.3	.1		4.5
SE	.1	.3	1.3	.2		3.6
S	1.8	.9	1.8	.4		3.9
SW	3.0	6.6	5.4	.7		3.6
W	3.8	3.5	4.3	1.7		3.7
NW	3.6	7.5	6.6	.8		4.4
VAR	.0	.0	.0	.0		.0
CALM	4.0	3.2	1.9	.3		3.0
TOT OBS	291	249	373	64	977	4.0
TOT PCT	29.8	25.9	38.2	6.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.1	.1	1.1	.7	2.1	.4	.3	.4	12.1	
NE	.0	.0	.1	.1	1.4	2.0	1.4	.0	.0	.1	7.3	
E	.0	.0	.0	.0	.3	.8	.4	.0	.0	.0	1.6	
SE	.0	.0	.1	.0	.1	.3	.2	.0	.0	.1	1.0	
S	.0	.0	.0	.0	.2	.6	.4	.0	.0	.0	3.8	
SW	.0	.0	.0	.1	.8	1.6	.9	.2	.1	.1	13.9	
W	.3	.0	.0	.1	.7	1.7	.4	.0	.2	.3	10.9	
NW	.1	.1	.0	.3	.9	2.9	1.3	.2	.1	.1	8.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.1	.0	7.6	
TOT OBS	4	1	3	4	56	149	79	8	7	11	693	977
TOT PCT	.4	.1	.3	.6	5.7	15.3	8.1	.8	.7	1.1	66.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >5000	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>OR >3000	2.3	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>OR >2000	8.1	10.6	10.8	10.8	10.8	10.8	10.8	10.8
>OR >1000	17.3	25.1	26.0	26.0	26.0	26.0	26.0	26.0
>OR >500	20.6	29.9	31.2	31.2	31.3	31.3	31.4	31.3
>OR >300	21.0	30.6	31.8	31.8	31.9	31.9	32.0	32.1
>OR >100	21.0	30.8	32.0	32.0	32.1	32.2	32.3	32.4
>OR >50	21.1	30.9	32.1	32.1	32.2	32.3	32.4	32.5
>OR >0	21.1	30.9	32.4	32.4	32.6	32.7	32.8	32.9
TOTAL	205	300	315	315	317	318	319	320

TOTAL NUMBER OF OBS: 972

PCT FREQ NM <5/8: 67.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	10	TOTAL OBS
21.1	7.8	14.7	11.1	12.0	8.1	9.8	10.0	9.0	.4	1017	

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PERIOD: (PRIMARY) 1907-1973
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43.73 62.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.4	
	TOT %	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.2	.2	.0	.0	.2	.0	.0	.0	.4	
	NO PCP	1.6	.7	.3	.2	.1	.7	.6	.6	.0	.1	4.8	
	TOT %	1.6	.7	.5	.5	.1	.7	.7	.6	.0	.1	5.5	
5<10	PCP	.0	.1	.2	.3	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	5.8	4.2	1.2	.6	.9	3.4	3.4	4.7	.0	2.3	26.9	
	TOT %	5.8	4.2	1.4	.9	.9	3.4	3.4	4.7	.0	2.3	27.1	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	13.4	7.3	1.8	1.1	3.4	13.2	11.1	8.4	.0	6.8	66.7	
	TOT %	13.4	7.3	1.8	1.1	3.4	13.2	11.1	8.4	.0	6.8	66.7	
TOT OBS													1408
TOT PCT		21.0	12.9	3.7	2.7	4.4	17.3	15.2	13.8	.0	9.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.4	
1/2<1	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	
1<2	0-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
2<5	0-9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	4-10	.6	.3	.1	.2	.0	.1	.1	.3	.0	.0	1.6	
	11-21	.9	.4	.2	.1	.1	.6	.5	.2	.0	.0	3.1	
	22+	.1	.0	.1	.1	.0	.0	.1	.2	.0	.0	.3	
	TOT %	1.6	.7	.5	.5	.1	.7	.7	.7	.0	.1	5.6	
5<10	0-9	.3	.1	.1	.0	.0	.1	.1	.1	.0	2.2	3.1	
	4-10	2.4	2.2	.3	.3	.1	1.3	2.3	2.7	.0	.0	12.0	
	11-21	2.7	1.6	.9	.7	.7	1.3	.7	2.0	.0	.0	10.6	
	22+	.2	.3	.0	.0	.1	.3	.2	.0	.0	.0	1.1	
	TOT %	5.9	4.2	1.3	1.0	.9	3.4	3.4	4.8	.0	2.2	27.1	
10+	0-9	.9	.9	.1	.1	.1	.2	.4	.3	.0	6.7	9.8	
	4-10	7.4	4.7	1.2	.6	1.8	5.2	6.7	4.8	.0	.0	32.3	
	11-21	4.7	1.8	.6	.3	1.4	6.4	3.4	2.8	.0	.0	21.8	
	22+	.3	.1	.0	.0	.2	1.3	.3	.3	.0	.0	2.7	
	TOT %	13.3	7.5	2.0	1.2	3.5	13.0	10.9	8.4	.0	6.7	66.6	
TOT OBS													1439
TOT PCT		20.9	12.9	4.0	2.9	4.6	17.1	15.0	14.0	.0	9.1	100.0	

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TABLE 10

AREA 0014 RAWSON
43.75 62.1W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.4	.0	6.5	22.0	8.5	.0	.4	1.6	40.2	39.8	246
06009	1.8	.6	.6	.6	3.7	9.6	8.0	.6	.6	.6	27.0	73.0	163
12015	.4	.0	.0	.4	4.8	13.7	9.6	.7	1.1	.4	31.0	69.0	271
18021	.0	.0	.3	1.2	6.5	15.3	5.9	.9	.6	1.5	30.3	69.7	323
TOT	4	1	3	6	36	150	79	8	7	11	325	678	1003
PCT	.4	.1	.3	.6	5.6	19.0	7.9	.8	.7	1.1	32.4	67.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.9	.0	.6	4.8	34.3	59.4	335
06009	.3	.3	.0	14.0	39.0	46.3	372
12015	.6	.6	.0	1.8	20.2	76.9	357
18021	.0	.0	.0	1.3	13.8	82.7	399
TOT	6	2	2	80	391	961	1443
PCT	.4	.2	.1	5.3	27.1	66.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.4	.8	6.7	35.4	57.9	240
06009	2.1	4.8	6.2	24.7	69.2	146
12015	.4	.4	1.1	30.2	68.7	260
18021	.0	.3	2.3	28.0	69.3	318
TOT	3	11	36	291	643	972
PCT	.3	1.1	3.7	29.9	66.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.6	.0	.0	1	.6
60/64	.0	.0	.0	2.4	4.1	2.4	2.4	1.8	22	13.0
55/59	.0	.0	.0	.6	4.1	8.3	10.1	8.3	33	31.4
50/54	.0	.0	.0	1.2	4.1	6.9	13.0	8.9	37	33.7
45/49	.0	.0	.0	.6	3.0	4.7	2.0	7.1	31	18.3
40/44	.0	.0	.0	.0	.0	1.2	.6	1.2	3	3.0
TOTAL	.0	.0	.0	8	24	40	49	46	169	100.0
PCT	.0	.0	.0	4.7	15.4	23.7	29.0	27.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0
60/64	2.7	.7	.0	.0	.6	2.2	3.1	3.7	.0	.0
55/59	8.0	4.6	.4	.7	1.0	1.0	8.7	6.3	.0	.0
50/54	6.1	2.3	.4	2.1	7.0	4.9	4.4	3.2	.0	1.2
45/49	3.0	1.2	2.3	1.2	2.8	4.3	3.0	.0	.0	.6
40/44	.0	1.3	.9	.0	.0	.6	.0	.0	.0	.0
TOTAL	19.7	10.3	4.1	4.1	11.8	10.3	19.2	15.4	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99L	95L	50L	50	15	MIN	MEAN	TOTAL OBS
00003	73	68	68	54	46	42	40	55.0	724
06009	68	64	62	54	46	44	41	56.4	577
12015	79	68	64	55	48	47	40	55.8	852
18021	83	76	70	61	49	46	40	60.3	571
TOT	83	72	66	56	47	44	40	56.2	2724

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	11.1	33.3	31.1	20.0	80	45		
06009	.0	.0	11.1	11.1	30.6	47.2	96	36		
12015	.0	9.3	9.3	23.6	23.6	30.2	81	42		
18021	.0	4.3	20.3	21.7	30.4	13.2	77	46		
TOT	0	8	26	40	50	66	31	170		

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TABLE 17

APEA 0014 RAWSON
43.75 62.1WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	N FOG	WD FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	4	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.1	.2	.6	.1	.0	13	.0	.9
14/16	.0	.0	.0	.0	.0	.1	1.1	1.5	.5	.0	.0	45	.0	3.2
11/13	.0	.0	.0	.0	.5	1.4	3.6	1.0	.0	.0	.0	90	.1	6.4
9/10	.0	.0	.0	.0	.6	2.9	2.9	.4	.0	.0	.0	96	.0	6.9
7/8	.0	.0	.1	.0	1.3	8.6	1.7	.0	.0	.0	.0	164	.0	11.7
6	.0	.0	.1	.3	.9	3.4	.8	.0	.0	.0	.0	75	.0	5.4
5	.0	.1	.2	.7	4.1	5.5	.1	.0	.0	.0	.0	151	.1	10.6
4	.0	.1	.1	1.6	4.6	2.9	.1	.0	.0	.0	.0	133	.1	9.4
3	.0	.1	.3	1.1	3.6	.8	.0	.0	.0	.0	.0	84	.0	6.0
2	.0	.1	.5	2.0	4.6	1.0	.0	.0	.0	.0	.0	114	.1	8.1
1	.0	.1	1.1	3.0	2.6	.6	.0	.0	.0	.0	.0	103	.2	7.1
0	.1	.4	1.4	2.8	1.8	.5	.0	.0	.0	.0	.0	98	.1	6.9
-1	.1	.3	.6	2.4	1.1	.1	.0	.0	.0	.0	.0	65	.1	4.5
-2	.1	.1	1.3	2.0	1.2	.0	.0	.0	.0	.0	.0	65	.1	4.6
-3	.0	.2	1.0	1.3	.2	.0	.0	.0	.0	.0	.0	38	.2	2.5
-4	.1	.0	1.0	.4	.6	.0	.0	.0	.0	.0	.0	29	.0	2.1
-5	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	14	.0	1.0
-6	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.3
-7/-8	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.7
-9/-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	5	128	251	388	390	145	44	1.1	.3	.2	1400	100.0	1.1	98.9
PCT	.4	1.9	9.1	17.9	27.7	27.9	10.4	3.1	1.1	.3	.2	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.4	.2	.0	.0	.0	2.9	.9	1.3	.8	.0	.0	.0	2.2
1-2	.3	3.3	.4	.0	.0	.0	6.2	.2	3.4	.1	.0	.0	.0	3.7
3-4	.1	3.4	3.5	.2	.0	.0	7.2	.0	1.5	.9	.2	.0	.0	2.6
5-6	.0	.4	2.7	.1	.0	.0	3.2	.0	.3	1.1	.1	.0	.0	1.5
7	.0	.0	1.4	.1	.0	.0	1.5	.0	.1	.7	.1	.0	.0	.9
8-9	.0	.1	.4	.2	.0	.0	.7	.0	.8	.1	.1	.0	.0	.2
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	10.7	9.2	.4	.0	.0	22.3	1.1	6.3	3.0	.4	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.1
1-2	.0	.3	.3	.0	.0	.0	.8	.0	.4	.8	.0	.0	.0	.5
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.3	.4	.0	.0	.0	.6
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	1.3	.0	.0	.0	2.2	.1	.7	.8	.0	.0	.0	1.6

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43.75 62.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.3	.0	.0	.0	.0	.3	.2	1.4	.0	.0	.0	.0	1.6	
1-2	.0	.9	.5	.0	.0	.0	1.5	.0	2.4	.5	.0	.0	.0	3.0	
3-4	.0	.2	.6	.1	.0	.0	.9	.0	2.5	3.7	.2	.0	.0	6.4	
5-6	.0	.1	.7	.1	.0	.0	.9	.0	.2	2.0	.5	.0	.0	2.7	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	2.1	1.0	.0	.0	3.1	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.5	.3	.0	.0	.8	
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	2.3	.3	.0	.0	4.1	.2	6.6	9.1	2.4	*	.0	18.3	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.6	2.1	.0	.0	.0	.0	2.7	.4	.6	.0	.0	.0	.0	1.0		
1-2	.0	2.7	.7	.0	.0	.0	4.4	.0	3.9	.4	.0	.0	.0	4.4		
3-4	.0	2.2	1.8	.0	.0	.0	3.9	.0	2.3	2.4	.0	.0	.0	4.8		
5-6	.0	.2	1.1	.2	.0	.0	1.5	.0	.0	.8	.2	.0	.0	1.0		
7	.0	.0	.4	.1	.0	.0	.5	.0	.1	.8	.0	.0	.0	.9		
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.1	.1	.0	.0	.0	.3		
10-11	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.6	8.2	4.4	.9	.1	.0	14.2	.4	7.3	4.5	.4	.0	.0	12.5	86.3	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	17.3	7.3	.2	.0	.0	.0	24.8	
1-2	.6	20.8	3.0	.0	.0	.0	24.4	
3-4	.1	12.3	13.7	.7	.0	.0	26.8	
5-6	.0	1.2	8.8	1.1	.0	.0	11.2	
7	.0	.2	6.1	1.3	.0	.0	7.7	
8-9	.0	.2	1.7	.9	.0	.0	2.8	
10-11	.0	.0	1.0	.3	.0	.0	1.3	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.1	.1	.4	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.0	42.1	34.7	5.0	.1	.0	100.0	895

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1966-1970
(OVER-ALL) 1964-1970

DECEMBER

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43.75 62.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.7	.0	.0	.0	.0	.0	.0	.7	.7	.0	3.7	.7	.0	.0	94.3
NE	.5	.0	.9	.0	.0	.0	.0	1.4	.1	.9	3.6	.0	.0	.0	94.0
E	1.1	.0	.0	.0	.0	.0	.0	1.1	1.9	.0	14.3	.0	.0	.0	82.3
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	.0	.0	.0	87.6
S	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	5.7	.0	.0	.0	92.0
SW	1.3	.4	.0	.0	.0	.0	.0	1.7	1.3	.4	2.8	.0	.0	.0	93.8
W	.8	.0	.0	.0	.0	.0	.0	.8	.8	.0	.8	.0	.0	.0	97.6
NW	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	3.8	.0	.0	.0	95.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	12.7	.0	.0	.0	86.3
TOT PCT	.6	.1	.3	.0	.0	.0	.0	.9	.9	.3	5.3	.1	.0	.0	92.4
TOT OBS:	1164														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	.7	.0	.0	.0	.0	.0	.0	.7	.7	.0	4.6	.4	.0	.0	93.7
0600	1.0	.0	.7	.0	.0	.0	.0	1.7	1.0	1.0	3.4	.0	.0	.0	91.0
1200	.7	.0	.3	.0	.0	.0	.0	1.0	.3	.0	7.0	.0	.0	.0	91.6
1800	.0	.3	.0	.0	.0	.0	.0	.3	1.4	.0	3.1	.0	.0	.0	93.2
TOT PCT	.6	.1	.3	.0	.0	.0	.0	.9	.9	.3	3.3	.1	.0	.0	92.3
TOT OBS:	1176														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.8	5.5	5.8	1.2	.1	.0		13.1	12.2	16.3	17.9	14.2	11.7	12.2	11.8	9.1	11.0	
NE	.7	6.7	9.1	.6	.1	.0		13.2	11.0	21.5	12.8	18.6	8.9	7.8	6.8	17.1	10.2	
E	.3	3.9	1.2	.1	.0	.0		5.4	8.3	9.9	3.8	7.4	3.6	3.2	2.7	6.6	4.2	
SE	.4	2.9	1.3	.4	.0	.0		5.0	9.8	5.3	7.3	3.0	3.9	3.6	3.8	9.9	4.0	
S	.8	3.7	2.6	1.1	.3	.0		8.3	12.7	9.4	11.7	5.3	6.4	4.0	5.4	11.6	8.8	
SW	1.1	9.8	6.7	3.9	1.6	.1		19.1	16.7	13.3	10.3	18.6	18.7	25.9	20.1	22.7	17.5	
W	1.0	6.7	9.4	1.3	.6	.1		19.0	12.8	9.6	13.0	13.3	19.0	17.6	23.1	5.7	22.0	
NW	.6	7.1	.0	.0	.3	.0		13.9	11.3	10.5	19.8	9.2	22.3	13.3	17.1	4.9	18.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	6.9							6.9	.0	4.1	3.3	11.1	3.4	7.9	3.3	16.6	3.4	
TOT OBS	301	1012	777	226	70	7	2393		11.8	439	184	289	179	466	369	290	177	
TOT PCT	12.6	42.3	32.3	9.4	2.9	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.2	6.5	3.1	.3	.0		13.1	12.2	16.8	13.2	12.0	9.8	
NE	3.7	7.4	1.9	.1	.1		13.2	11.0	18.9	14.9	7.3	14.3	
E	2.6	2.3	.4	.0	.0		5.4	8.3	8.1	5.9	3.0	5.7	
SE	1.9	2.4	.6	.1	.0		5.0	9.8	5.9	4.1	4.6	5.2	
S	2.7	3.6	1.5	.3	.2		8.3	12.7	10.2	5.9	7.3	10.3	
SW	3.7	7.1	3.1	2.3	.6		19.1	16.7	12.4	18.6	23.3	20.7	
W	3.6	7.6	2.6	1.0	.2		19.0	12.8	10.6	13.0	20.1	11.9	
NW	4.2	6.7	2.4	.4	.1		13.9	11.3	13.2	16.2	16.2	10.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	6.9						6.9	.0	3.9	8.1	5.9	11.6	
TOT OBS	777	1049	420	116	31	2393		11.8	623	468	833	467	
TOT PCT	32.3	43.8	17.6	4.8	1.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

DECEMBER

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43.75 62.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.9	7.1	47.4	32.7	7.2	1.3	.5	11.0	100.0	623
0600	6.1	6.2	39.7	34.4	8.8	2.8	.0	11.6	100.0	468
1200	5.9	5.1	40.5	32.3	11.3	4.6	.4	12.7	100.0	235
1800	11.6	4.3	41.3	30.4	9.9	2.4	.2	11.1	100.0	467
TOT	165	196	1012	777	226	70	7	11.8		2393
PCT	6.9	5.7	42.3	32.5	9.4	2.9	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	4.5	1.5	5.0	1.3		4.0
NE	6.7	5.8	4.5	1.4		3.6
E	2.7	1.3	2.4	1.8		4.2
SE	1.7	1.2	.7	.5		3.4
S	3.9	1.3	2.4	.4		3.3
SW	7.0	3.3	7.5	1.6		3.8
W	2.4	2.3	3.7	.7		4.1
NW	2.3	1.9	1.6	1.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	4.1	2.3	2.8	2.1		3.8
TOT OBS	344	221	296	106	967	
TOT PCT	39.6	22.9	30.6	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.4	.0	.0	.0	.6	2.2	1.7	.1	.1	.2	4.9	
.7	.0	.0	.1	.6	1.6	1.5	.2	.0	.0	13.8	
1.0	.0	.0	.2	.3	.5	.8	.1	.1	.1	3.0	
.4	.0	.0	.0	.3	.1	.2	.0	.0	.1	3.1	
.2	.0	.0	.0	.4	.4	.7	.1	.0	.0	6.2	
.6	.1	.1	.2	1.8	2.1	1.9	.1	.4	.3	13.7	
.0	.1	.0	.1	1.2	1.4	.8	.0	.0	.1	3.4	
.2	.6	.0	.0	.3	.9	.3	.0	.1	.2	5.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.0	.1	.1	.1	.1	1.7	1.0	.1	.0	.1	6.9	
44	3	2	6	38	103	87	6	7	11	638	967
4.6	.3	.2	.6	6.0	10.9	9.0	.6	.7	1.1	66.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>8	>6	>4	>3	>2	>1	>0
>4500	1.3	1.7	1.9	1.9	1.9	1.9	1.9	1.9
>3000	2.1	2.3	2.5	2.5	2.5	2.5	2.5	2.5
>1500	9.2	11.2	11.3	11.3	11.3	11.3	11.3	11.3
>1000	17.9	21.9	22.4	22.4	22.3	22.3	22.3	22.3
>800	22.0	27.2	28.3	28.4	28.3	28.3	28.3	28.3
>600	22.2	27.7	28.9	29.0	29.1	29.1	29.1	29.1
>400	22.2	27.7	29.0	29.2	29.3	29.3	29.3	29.3
>300	22.4	28.0	29.3	29.3	29.6	29.6	29.6	29.6
>150	22.3	28.2	30.0	30.2	30.4	31.2	34.1	34.2
>0	21.6	27.3	29.1	29.3	29.3	30.2	33.0	33.1

TOTAL NUMBER OF OBS: 967

PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
20.7	9.1	13.3	12.3	8.3	9.1	9.7	6.1	5.2	4.3	100.1

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.75 62.1W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	NO PCP	.7	.5	.6	.3	.2	.4	.0	.0	.0	.9	3.0	
	TOT %	.2	.5	.6	.3	.2	.4	.0	.1	.0	.9	3.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
2<5	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.5	.3	.3	.0	.2	.5	.4	.5	.0	.2	2.4	
	TOT %	.5	.3	.3	.0	.2	.8	.4	.5	.0	.2	3.1	
5<10	PCP	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	2.0	3.4	1.8	.5	1.0	3.4	1.4	1.8	.0	1.2	16.5	
	TOT %	2.0	3.6	1.9	.5	1.0	3.5	1.4	1.8	.0	1.2	16.9	
10+	PCP	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	NO PCP	10.1	13.6	5.0	3.1	6.3	15.8	9.0	5.1	.0	8.5	76.4	
	TOT %	10.1	13.6	5.0	3.1	6.3	15.8	9.1	5.1	.0	8.5	76.6	
TOT OBS													
TOT PCT													
		12.8	18.0	7.9	4.0	7.6	20.6	10.9	7.4	.0	10.8	100.0	1163

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.8	.9	
	4-10	.2	.4	.6	.2	.1	.4	.0	.1	.0	.0	2.0	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	.6	.3	.2	.4	.0	.1	.0	.8	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2	
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.2	.2	.3	.0	.0	.2	.1	.5	.0	.0	1.3	
	11-21	.3	.0	.1	.0	.1	.0	.3	.1	.0	.0	.8	
	22+	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.4	.4	.0	.1	.8	.4	.5	.0	.2	3.2	
5<10	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.2	1.3	
	4-10	.9	1.4	1.5	.2	.4	.7	.5	1.3	.0	.0	6.9	
	11-21	.8	1.7	.3	.3	.3	1.4	.4	.5	.0	.0	5.4	
	22+	.1	.4	.0	.0	.4	1.4	.5	.0	.0	.0	2.8	
	TOT %	1.9	3.5	1.9	.5	1.0	3.5	1.4	1.8	.0	1.2	16.6	
10+	0-3	.6	.5	.0	.1	.4	.5	.3	.1	.0	8.4	11.0	
	4-10	4.1	6.8	3.3	2.1	3.4	3.6	4.2	3.0	.0	.0	30.6	
	11-21	4.6	5.7	1.4	.8	1.8	7.1	4.2	1.8	.0	.0	27.5	
	22+	.7	.3	.1	.0	.5	4.8	1.0	.3	.0	.0	7.8	
	TOT %	9.9	13.3	4.9	3.1	6.3	16.0	9.7	5.2	.0	8.4	76.8	
TOT OBS													
TOT PCT													
		12.5	17.6	7.7	3.9	7.7	20.7	11.6	7.6	.0	10.7	100.0	1200

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

AREA 0014 RAWSON
43.75 62.1W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NM <5/8 ANY MGT	TOTAL DBS
00003	3.2	.0	.0	.4	3.0	11.3	11.5	.8	.8	.4	32.0	68.0	253
06009	9.5	.5	.0	.0	4.8	9.3	9.5	.0	.5	.5	34.9	65.1	189
12015	5.5	.7	.4	1.1	4.7	12.0	7.7	.7	.4	.4	33.6	66.4	274
18021	1.1	.0	.4	.7	9.9	9.9	7.0	.7	1.1	2.9	33.8	66.2	272
TOT	44	3	2	6	58	107	87	6	7	11	331	657	988
PCT	4.5	.3	.2	.6	5.9	10.8	8.8	.6	.7	1.1	33.5	66.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	2.7	.3	.0	3.4	18.0	75.3	294
06009	4.2	.0	.0	4.9	20.1	70.8	308
12015	4.5	.0	.0	1.9	14.5	79.0	310
18021	.7	.3	.7	3.0	14.0	81.3	299
TOT	37	2	2	40	202	928	1211
PCT	3.1	.2	.2	3.3	16.7	76.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	3.2	3.2	4.8	28.3	66.9	231
06009	10.2	10.7	13.0	29.4	61.0	177
12015	9.5	6.6	8.3	29.4	66.2	272
18021	1.1	1.9	5.6	29.4	65.1	269
TOT	44	30	73	264	632	969
PCT	4.5	3.2	7.8	27.2	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
70/74	.0	.0	.0	.1	1.3	.0	.0	.0	2	1.3
65/69	.0	.0	.0	.7	1.3	2.6	1.3	.0	9	3.9
60/64	.0	.0	.0	.7	3.3	9.2	9.8	2.6	39	25.5
55/59	.0	.7	.0	1.3	7.2	10.3	17.6	7.8	69	45.1
50/54	.0	.0	.0	3.3	2.0	1.3	7.8	3.9	28	18.3
45/49	.0	.0	.0	.0	1.3	.0	.0	2.0	5	3.6
40/44	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
TOTAL	0	1	0	8	28	37	36	29	153	100.0
PCT	.0	.7	.0	5.9	18.3	24.2	36.6	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	1.1	.2	.0	.0
65/69	1.0	2.1	.0	.0	.5	.8	.7	.8	.0	.0
60/64	9.0	.8	.0	.7	.0	2.8	4.7	6.9	.0	.7
55/59	4.4	3.4	3.6	2.0	2.5	10.1	13.4	5.1	.0	.7
50/54	1.0	1.3	.0	1.1	5.1	3.4	4.1	1.6	.0	.7
45/49	.7	.0	.0	.0	.7	.8	1.1	.0	.0	.0
40/44	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0
TOTAL	16.0	7.7	3.6	3.8	9.3	18.0	25.2	14.5	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	77	70	66	58	49	45	43	57.8	810
06009	72	68	64	57	49	46	45	56.9	472
12015	84	73	68	59	50	47	42	59.1	804
18021	81	77	73	63	51	47	46	62.4	450
TOT	84	74	69	59	50	46	42	59.0	2336

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	6.7	19.3	24.4	10.0	15.6	79	45		
06009	.0	.0	14.7	29.4	5.3	20.6	81	34		
12015	.0	9.3	9.3	23.3	7.2	20.6	80	43		
18021	.0	8.3	27.8	16.7	30.6	16.7	77	36		
TOT	0	10	25	37	37	29	79	158		

DECEMBER

PERIOD: (PRIMARY) 1906-1970
(OVER-ALL) 1864-1970

TABLE 17

AREA 0014 RAWSON
43.75 62.1W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.2	.3	.1	8	.1	.5
17/19	.0	.0	.0	.0	.0	.1	.1	.0	.6	.3	.0	13	.0	1.1
14/16	.0	.0	.0	.0	.0	.0	.3	1.6	1.5	.4	.0	43	.2	3.3
11/13	.0	.0	.0	.0	.0	.1	1.9	2.9	.3	.0	.0	60	.2	5.0
9/10	.0	.0	.0	.0	.0	1.3	3.8	1.3	.0	.0	.0	74	.2	6.2
7/8	.0	.0	.0	.0	.4	4.8	3.4	.5	.0	.0	.0	108	.3	9.0
6	.0	.0	.0	.0	.0	3.4	1.6	.1	.0	.0	.0	39	.1	4.9
5	.0	.0	.0	.1	1.0	7.8	2.8	.0	.0	.0	.0	131	.8	10.6
4	.0	.0	.0	.4	2.8	4.9	.6	.0	.0	.0	.0	101	.3	8.3
3	.0	.0	.2	.3	2.6	2.9	.2	.0	.0	.0	.0	72	.4	3.8
2	.0	.0	.3	.2	3.1	4.0	.1	.0	.0	.0	.0	88	.7	6.9
1	.0	.1	.1	1.3	3.9	1.8	.0	.0	.7	.0	.0	83	.6	6.6
0	.0	.0	.1	1.8	3.6	1.0	.0	.0	.0	.0	.0	76	.4	6.1
-1	.0	.0	.3	1.6	1.3	.2	.0	.0	.0	.0	.0	38	.3	2.9
-2	.0	.1	.3	1.8	2.3	.2	.0	.0	.0	.0	.0	56	.3	4.6
-3	.0	.0	.3	1.5	.6	.0	.0	.0	.0	.0	.0	28	.0	2.4
-4	.0	.0	.3	1.5	.2	.0	.0	.0	.0	.0	.0	25	.2	2.0
-5	.0	.0	1.0	1.6	.1	.0	.0	.0	.0	.0	.0	31	.2	2.3
-6	.1	.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	13	.0	1.1
-7/-3	.0	.3	1.9	.3	.0	.0	.0	.0	.0	.0	.0	31	.3	2.4
-9/-10	.0	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	7	.0	.6
-11/-13	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	.3
-14/-16	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	10	74	180	292	375	170	75	26	12	4	1155	64	1091
PCT	.3	.9	6.4	13.0	21.6	32.3	14.7	6.3	2.6	1.0	.3	100.0	5.3	94.3

PERIOD: (OVER-ALL) 1903-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.2	.0	.0	.0	1.6	.3	2.2	.1	.0	.0	.0	2.8
1-2	.2	2.0	1.2	.0	.0	.0	3.4	.6	4.3	1.3	.0	.0	.0	5.9
3-4	.0	.8	2.4	.3	.0	.0	3.4	.0	.9	4.1	.2	.0	.0	3.2
5-6	.0	.1	.8	.2	.0	.0	1.1	.0	.4	1.7	.0	.0	.0	2.0
7	.0	.2	.6	.1	.0	.0	.9	.0	.6	.8	.0	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.4	.3	.0	.0	.6
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.2	.2	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	5.7	.7	.0	.0	11.2	.3	8.1	3.6	.8	.1	.0	18.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.1	.4	.0	.0	.0	.0	.3
1-2	.0	3.6	.3	.0	.0	.0	4.1	.0	1.1	.4	.0	.0	.0	1.3
3-4	.0	1.2	.8	.0	.0	.0	2.0	.0	.3	.3	.0	.0	.0	1.0
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	1.8	.0	.0	.0	8.3	.1	2.1	1.1	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0.14 RANSON
43.75 62.1W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6	.3	1.3	.0	.0	.0	.0	1.6
1-2	.1	1.1	.1	.0	.0	.0	1.3	.*	1.8	.4	.0	.0	.0	2.1
3-4	.0	.8	.6	.0	.0	.0	1.4	.*	1.1	1.3	.2	.0	.0	3.0
5-6	.0	.1	.8	.0	.0	.0	.9	.0	.4	2.9	.2	.0	.0	3.4
7	.0	.0	.4	.5	.0	.0	.8	.0	.*	2.0	.8	.0	.0	2.8
8-9	.0	.0	.0	.1	.0	.0	.1	.0	.0	1.0	1.0	.2	.0	2.1
10-11	.0	.0	.5	.3	.1	.0	.9	.0	.0	1.2	1.8	.1	.0	3.1
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.6	.2	.0	1.0
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	1.2	.8	.0	2.1
17-19	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.*	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	2.5	1.1	.1	.0	7.3	.4	4.6	4.2	6.0	1.7	.0	21.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.1	.0	.0	.0	.2	.1	1.1	.*	.0	.0	.0	1.2	
1-2	.0	1.7	.8	.0	.0	.0	2.5	.0	1.2	.3	.0	.0	.0	1.3	
3-4	.2	1.9	.9	.1	.0	.0	2.3	.0	.8	.3	.*	.0	.0	1.4	
5-6	.0	.1	1.3	.1	.0	.0	1.7	.0	.0	.6	.0	.0	.0	.4	
7	.0	.1	.8	.2	.0	.0	1.0	.0	.0	.3	.*	.0	.0	.3	
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.1	.2	.4	.0	.0	.8	.0	.0	.2	.*	.0	.0	.3	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.4	4.3	.9	.6	.0	9.6	.1	3.1	2.0	.1	.0	.0	3.4	85.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	16.3	9.4	.3	.0	.0	.0	26.2	
1-2	.4	17.0	3.0	.0	.0	.0	22.4	
3-4	.2	7.4	11.4	.8	.0	.0	19.8	
5-6	.0	1.1	8.7	.3	.0	.0	10.3	
7	.0	.4	3.0	1.6	.0	.0	6.9	
8-9	.0	.0	1.9	1.3	.4	.0	3.7	
10-11	.0	.1	2.8	2.8	.2	.0	3.9	
12	.0	.0	.2	.7	.2	.0	1.2	
13-16	.0	.0	.0	1.3	1.3	.0	2.6	
17-19	.0	.0	.0	.2	.2	.0	.3	
20-22	.0	.0	.0	.1	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.9	35.4	35.4	9.7	2.3	.0	100.0	827

PERIOD: (OVER-ALL) 1994-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	19.8	16.4	6.3	2.4	1.3	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	443	3
6-7	.0	.8	1.3	3.2	4.6	2.1	3.8	.3	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	183	8
8-9	.0	.4	.1	1.7	1.7	.8	1.2	1.0	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	79	9
10-11	.0	.2	.9	.2	.5	.2	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
12-13	.0	.0	2.3	.8	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	3
>13	.0	.0	.0	.9	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
INDET	11.6	1.3	1.7	.6	.9	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	1
TOTAL	113	208	212	129	108	44	38	18	28	3	2	0	0	0	0	0	0	0	0	923	4
PCT	12.2	22.5	22.9	13.9	11.7	4.8	6.3	1.9	3.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976AREA 0014 RAWSON
43.75 61.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.7	.2	.3	.0	.0	.0	.0	1.2	1.0	.9	7.6	.1	1.4	.4	87.8
NE	2.4	.6	3.9	.0	.0	.0	.0	6.8	.8	.7	11.1	.0	1.0	.0	79.6
E	5.7	1.7	2.7	.0	.0	.0	.0	10.1	1.3	.9	17.8	.0	.2	.0	69.8
SE	8.0	.8	1.8	.0	.0	.0	.0	10.6	4.4	.2	8.0	1.2	.0	.0	77.6
S	4.2	1.3	.7	.0	.0	.0	.0	6.1	2.3	.2	3.3	.1	.1	.0	87.9
SW	1.9	2.0	2.0	.0	.0	.0	.4	6.4	2.4	1.0	4.3	.0	.1	.0	86.0
W	.9	.3	.2	.0	.0	.0	.6	2.0	1.1	1.2	3.5	.0	.4	.0	91.9
NW	.6	.5	.2	.0	.0	.0	.0	1.3	.5	.5	5.9	.2	.6	.0	90.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	.0	.7	.0	.0	.0	.0	.8	.2	.2	13.2	1.7	.0	.0	75.6
TOT PCT	2.0	.8	.4	.0	.0	.0	.2	3.7	1.3	.8	6.2	.1	.4	.0	87.3
TOT OBS	7172														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	1.1	.7	.3	.0	.0	.0	.1	2.2	1.3	1.5	7.2	.3	.6	.0	87.0
0600	2.5	.7	1.0	.0	.0	.0	.3	4.6	1.4	1.7	4.6	.2	.0	.0	87.7
1200	2.6	.5	.8	.0	.0	.0	.1	4.1	1.3	.2	7.4	.0	.8	.0	86.1
1800	1.7	1.4	1.0	.0	.0	.0	.0	4.0	1.6	.0	6.2	.1	.7	.0	87.4
TOT PCT	1.9	.8	.7	.0	.0	.0	.2	3.7	1.3	.8	6.5	.1	.6	.0	87.1
TOT OBS	7270														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.9	5.0	5.8	2.1	.3	.0		14.1	13.9	15.1	13.7	20.7	12.8	14.0	12.4	18.4	12.2
NE	.7	3.5	2.7	.4	.0	.0		7.4	10.8	9.6	6.6	9.0	5.4	5.8	6.3	9.2	6.4
E	.5	2.0	1.2	.3	.1	.0		4.0	10.5	4.9	3.6	3.9	3.7	3.7	3.3	4.7	4.1
SE	.6	2.4	1.9	.6	.2	.1		5.8	12.7	6.2	6.3	3.6	6.3	9.7	6.1	4.3	6.3
S	.0	3.6	3.2	1.6	.6	.2		9.9	14.7	10.8	10.0	8.2	8.8	9.7	10.4	9.6	10.4
SW	1.1	5.3	6.1	3.2	1.3	.4		17.4	16.7	19.8	15.3	17.1	15.9	19.0	17.7	16.4	18.9
W	1.1	6.6	7.0	2.6	.8	.1		18.1	14.1	15.6	17.8	13.7	19.8	18.9	20.8	19.1	20.1
NW	.7	6.4	8.1	3.5	.7	.0		19.7	14.6	18.2	23.3	19.2	24.0	20.0	20.6	19.4	19.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0	3.8	3.4	4.5	3.3	3.2	2.3	5.0	2.6
TOT OBS							23946		13.8	4091	2577	1614	2589	4144	4613	1736	2622
TOT PCT	10.3	34.9	36.0	14.1	3.9	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.9	6.3	4.0	.8	.1	14.1	13.9	14.7	15.1	13.2	13.9	
NE	2.3	3.7	1.2	.2	.0	7.4	10.8	8.6	7.7	6.1	7.6	
E	1.5	1.8	.6	.1	.0	4.0	10.5	4.9	4.1	3.3	4.3	
SE	1.8	2.3	1.2	.4	.1	5.8	12.7	6.2	5.6	5.9	5.6	
S	2.6	3.8	2.2	.9	.4	9.9	14.7	10.4	8.4	10.0	10.1	
SW	3.3	6.6	4.7	2.0	.9	17.4	16.7	15.6	15.9	18.4	19.6	
W	3.8	8.0	4.4	1.6	.3	18.1	14.1	16.4	18.0	19.8	17.7	
NW	3.4	8.5	5.8	1.8	.2	19.7	14.6	19.4	21.1	20.2	17.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.6					3.6	.0	3.7	4.1	2.8	4.2	
TOT OBS						23946		12.8	6628	4203	8757	4358
TOT PCT	25.1	41.0	24.1	7.8	1.9		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

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AREA 0014, RAWSON
43.75 61.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	3.7	7.9	36.3	35.0	12.7	2.4	.9	13.3	100.0	6628
06009	4.1	6.7	34.7	35.1	14.6	4.1	.7	13.9	100.0	4203
12015	2.8	6.3	34.1	36.3	15.4	4.4	.7	14.3	100.0	8757
18021	4.2	5.8	34.4	37.7	13.6	3.7	.6	13.7	100.0	4358
TOT								13.8		23946
PCT	3.6	6.7	34.9	36.0	14.1	3.9	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	3.6	6.3	3.1		4.1
NE	2.3	1.6	2.4	2.7		5.0
E	1.2	.4	1.1	1.6		5.3
SE	.7	.3	1.2	1.5		5.2
S	2.3	1.9	3.8	2.0		4.7
SW	5.5	4.6	5.4	1.8		3.8
W	6.3	2.8	4.3	1.3		3.4
NW	7.3	3.0	4.7	2.1		3.6
VAR	.0	.0	.0	.0		.0
CALM	1.6	.8	.9	.6		3.9
TOT OBS					5228	4.1
TOT PCT	33.9	19.1	30.1	16.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.4	.*	.1	.2	1.8	2.1	1.1	.1	.2	.4	13.1	
NE	.5	.*	.2	.2	1.2	1.0	.6	.*	.1	.1	5.1	
E	.3	.0	.0	.4	.9	.4	.2	.*	.*	.1	2.0	
SE	.2	.0	.*	.3	.9	.5	.2	.*	.*	.2	1.8	
S	.2	.0	.1	.5	1.3	1.2	.8	.3	.1	.1	5.3	
SW	.3	.*	.5	.4	1.0	1.6	.9	.2	.2	.2	12.2	
W	.*	.*	.1	.6	.8	1.1	.4	.2	.2	.2	11.0	
NW	.1	.1	.1	.2	1.1	1.3	.6	.2	.1	.5	12.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.*	.*	.1	.1	.5	.2	.*	.1	.1	2.7	
TOT OBS											5228	
TOT PCT	2.2	.1	1.0	2.9	9.2	9.6	5.0	1.1	1.1	1.9	65.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >5000	2.1	2.8	2.9	2.9	2.9	3.0	3.0	3.0
>OR >5000	2.9	3.6	4.0	4.0	4.0	4.0	4.0	4.0
>OR >5000	6.6	8.8	8.9	8.9	8.9	9.0	9.0	9.0
>OR >2000	13.3	17.6	18.4	18.5	18.5	18.6	18.6	18.6
>OR >1000	19.2	26.4	27.6	27.7	27.8	27.9	27.9	27.9
>OR >600	21.2	29.1	30.4	30.5	30.7	30.7	30.8	30.8
>OR >300	21.7	29.7	31.3	31.5	31.7	31.8	31.8	31.8
>OR >150	21.7	29.8	31.4	31.6	31.8	31.9	31.9	31.9
>OR >0	21.9	30.1	32.1	32.6	32.9	33.3	34.1	34.2

TOTAL NUMBER OF OBS: 5233

PCT FREQ NH <5/8: 65.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
20.2	9.3	12.0	9.7	8.1	6.3	8.2	7.6	10.7	2.0	5505

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.4	.2	.1	.0	.2	.1	.1	.0	.2	1.7	
	TOT %	.6	.4	.2	.1	.0	.2	.1	.1	.0	.2	1.6	
1/2<1	PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.2	.0	.0	.1	.1	.0	.0	.2	.0	.0	.5	
	TOT %	.2	.0	.0	.1	.1	.1	.0	.2	.0	.0	.7	
1<2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6	
	TOT %	.2	.1	.0	.1	.0	.1	.0	.1	.0	.0	.6	
2<5	PCP	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.9	
	NO PCP	1.1	.3	.2	.2	.2	.3	.2	.4	.0	.1	3.1	
	TOT %	1.1	.5	.3	.4	.3	.4	.3	.4	.0	.1	3.9	
5<10	PCP	.2	.1	.3	.1	.3	.5	.0	.1	.0	.0	1.7	
	NO PCP	6.0	4.7	1.2	.9	1.8	3.2	4.1	5.1	.0	.6	25.6	
	TOT %	6.3	4.8	1.4	1.0	2.1	3.7	4.1	5.3	.0	.6	27.3	
10+	PCP	.0	.0	.1	.1	.2	.2	.1	.0	.0	.0	.7	
	NO PCP	12.0	9.9	2.9	2.3	6.4	11.7	10.3	10.9	.0	2.9	64.7	
	TOT %	12.1	9.9	2.9	2.4	6.6	11.9	10.4	10.9	.0	2.9	65.9	
TOT OBS													
TOT PCT													
		20.3	9.4	4.6	4.1	9.1	16.4	15.2	17.0	.0	3.8	100.0	7118

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3	
	4-10	.2	.2	.1	.0	.0	.1	.0	.1	.0	.0	.9	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.4	.2	.1	.0	.2	.0	.2	.0	.1	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	11-21	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.0	.0	.1	.1	.1	.1	.2	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.1	.1	.1	.0	.1	.0	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.3	
	4-10	.4	.2	.1	.2	.0	.1	.2	.2	.0	.0	1.4	
	11-21	.6	.4	.2	.2	.1	.2	.2	.2	.0	.0	1.9	
	22+	.1	.1	.1	.1	.2	.2	.0	.1	.0	.0	1.0	
	TOT %	1.2	.7	.5	.5	.3	.5	.3	.5	.0	.1	4.6	
5<10	0-3	.2	.2	.1	.1	.1	.1	.1	.1	.0	.7	1.6	
	4-10	1.8	1.2	.8	.4	.4	.9	1.3	2.0	.0	.0	8.6	
	11-21	2.3	1.1	.4	.3	1.1	1.5	1.8	2.1	.0	.0	10.7	
	22+	1.5	.2	.0	.1	.9	1.2	.5	.7	.0	.0	4.8	
	TOT %	5.8	2.7	1.3	1.0	2.1	3.7	3.7	4.9	.0	.7	25.9	
10+	0-3	.3	.4	.2	.1	.2	.3	.4	.1	.0	3.0	5.0	
	4-10	3.9	2.7	1.3	1.3	2.4	3.3	3.9	3.7	.0	.0	22.6	
	11-21	3.2	2.4	1.0	.9	3.0	6.0	4.8	5.4	.0	.0	28.7	
	22+	1.7	.2	.0	.1	1.6	3.0	1.9	1.3	.0	.0	9.8	
	TOT %	11.1	5.8	2.5	2.4	7.2	12.5	11.0	10.6	.0	3.0	66.1	
TOT OBS													
TOT PCT													
		18.9	9.7	4.5	4.2	9.7	17.1	15.4	16.4	.0	4.0	100.0	7749

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	2.5	.0	1.2	2.0	8.1	9.8	4.0	1.7	.6	2.5	32.3	67.7	1333
06009	3.1	.1	.9	2.9	6.8	7.7	5.2	.8	.9	1.7	30.1	69.9	995
12015	2.2	.2	.7	3.3	12.0	9.6	4.9	.9	1.5	.6	35.8	64.2	1479
18021	1.7	.2	1.1	2.1	3.4	9.0	5.3	.8	1.1	2.6	34.0	66.0	1595
TOT													5402
PCT	2.2	.1	1.0	2.8	9.0	7.4	4.8	1.1	1.0	1.0	32.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.3	.9	.8	5.5	28.7	62.8	1977
06009	1.0	.5	.6	6.4	31.9	58.3	1815
12015	2.7	1.0	.9	3.5	25.4	66.6	2056
18021	2.2	.6	1.1	3.1	17.8	75.1	2000
TOT							7840
PCT	1.6	.8	.9	4.6	26.1	65.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	2.7	4.0	9.5	25.6	64.9	1286
06009	2.4	3.0	10.0	23.0	67.0	926
12015	2.2	3.3	8.3	28.1	62.3	1432
18021	1.7	3.4	8.0	26.7	65.1	1564
TOT						5233
PCT	2.3	3.7	8.7	26.4	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
70/74	.0	.0	.0	.1	.3	.1	.1	.0	.3	.3
65/69	.1	.0	.0	.3	.6	1.3	.9	.3	2.5	2.5
60/64	.0	.0	.2	.8	2.4	3.7	5.2	2.5	14.7	14.7
55/59	.0	.1	.1	.8	3.0	4.6	7.4	3.9	19.9	19.9
50/54	.0	.0	.1	1.1	2.4	3.9	9.0	4.3	21.7	21.7
45/49	.0	.0	.0	.2	1.3	7.7	9.6	8.4	27.4	27.4
40/44	.0	.0	.0	.3	1.4	2.5	3.1	4.1	11.6	11.6
35/39	.0	.0	.0	.0	.0	.2	.3	.2	.6	.6
TOTAL									2170	100.0
PCT	.1	.1	.5	3.0	11.3	24.6	33.5	23.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.1	.1	.0	.0	.0	.1	.1	.2	.0	.0
1.0	.5	.1	.1	.4	.3	.4	.8	.0	.0
3.4	1.1	.6	.4	.8	2.1	3.1	3.2	.0	.2
3.9	1.5	.7	.9	1.8	3.3	4.0	3.3	.0	.4
4.8	1.7	.9	.6	2.7	3.2	3.6	3.9	.0	.4
5.2	1.7	1.2	1.0	2.2	4.1	5.0	6.4	.0	.5
.9	1.1	.7	.8	1.6	2.3	2.3	1.6	.0	.3
.0	.1	.0	.1	.3	.1	.1	.0	.0	.0
19.4	7.6	4.2	3.9	9.7	18.5	18.3	19.3	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	62	59	52	45	42	30	52.1	6509
06009	73	60	58	52	44	42	31	52.3	4188
12015	84	64	60	53	46	43	31	52.9	8425
18021	83	67	63	55	47	44	31	55.7	4158
TOT	84	64	60	52	45	42	30	53.1	23280

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.1	4.9	9.6	24.3	35.6	25.4	82	617
06009	.0	2.6	10.2	25.1	34.0	27.8	82	459
12015	.1	4.5	9.9	25.3	34.1	25.6	81	599
18021	.1	4.7	15.0	24.2	27.5	18.5	80	556
TOT	.3	97	251	530	789	541	81	2231

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT FOG	NO FOG
25/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0
23/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	35	.2
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.3	.3	.1	.1	.0	117	.9
11/13	.0	.0	.0	.0	.0	.2	.3	.3	.5	.5	.2	.0	.0	240	2.0
9/10	.0	.0	.0	.0	.1	.3	.3	.4	.6	.5	.2	.0	.0	300	2.4
7/8	.0	.0	.0	.1	.3	1.0	.6	1.4	1.0	.5	.1	.0	.0	524	4.8
6	.0	.0	.0	.2	.6	.7	.2	.8	.7	.2	.0	.0	.0	294	3.3
5	.0	.0	.0	.7	2.0	.8	.9	1.6	1.2	.3	.0	.0	.0	640	7.0
4	.0	.0	.1	1.7	1.9	.9	1.0	1.6	1.0	.2	.0	.0	.0	644	8.2
3	.0	.0	.3	2.4	2.3	1.0	1.0	1.2	.5	.1	.0	.0	.0	592	7.6
2	.0	.0	.8	3.7	2.0	1.2	1.1	2.2	.6	.0	.0	.0	.0	792	10.8
1	.0	.1	1.3	2.5	1.4	1.3	1.2	1.3	.4	.0	.0	.0	.0	584	8.9
0	.0	.0	2.0	3.1	1.5	1.3	1.2	1.7	.2	.0	.0	.0	.0	677	10.1
-1	.0	.2	1.3	2.2	.7	1.2	.9	.7	.1	.0	.0	.0	.0	411	6.8
-2	.0	.0	1.5	1.4	.7	.9	1.1	.7	.0	.0	.0	.0	.0	400	6.2
-3	.0	.2	.7	.9	.3	.7	.8	.3	.0	.0	.0	.0	.0	246	3.9
-4	.0	.0	.6	.4	.3	.4	.7	.2	.0	.0	.0	.0	.0	210	2.9
-5	.0	.1	.1	.3	.3	.6	.3	.1	.0	.0	.0	.0	.0	158	2.2
-6	.0	.0	.2	.3	.3	.4	.2	.0	.0	.0	.0	.0	.0	84	1.9
-7/-8	.0	.0	.4	.2	.5	.6	.1	.0	.0	.0	.0	.0	.0	131	1.7
-9/-10	.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	64	1.0
-11/-13	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	32	.3
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.1
-17/-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
TOTAL														7086	
PCT	.1	1.2	10.1	21.1	16.0	13.7	12.0	14.7	7.0	2.7	.9	.3	.1	100.0	98.8

PERIOD: (OVER-ALL) 1903-1976

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.8	.2	.0	.0	.0	1.1	.2	.6	.1	.0	.0	.0	.9
1-2	.2	2.9	1.3	.0	.0	.0	4.3	.3	1.7	.8	.0	.0	.0	2.8
3-4	.0	1.4	2.4	.1	.0	.0	4.0	.0	.9	1.8	.1	.0	.0	2.5
5-6	.0	.6	2.6	1.3	.0	.0	4.5	.0	.2	1.1	.1	.0	.0	1.4
7	.0	.0	1.9	1.3	.0	.0	3.3	.0	.2	.7	.2	.0	.0	1.2
8-9	.0	.0	1.0	.8	.0	.0	1.8	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.1	.2	1.4	.1	.0	1.8	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	9.5	5.9	.4	.0	22.1	.6	3.6	4.3	.6	.0	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.3	.0	.0	.0	.0	.3	.2	.2	.0	.0	.0	.0	.3
1-2	.1	.9	.3	.0	.0	.0	1.5	.0	.4	.3	.0	.0	.0	.7
3-4	.0	.3	.8	.0	.0	.0	1.2	.0	.4	.4	.0	.0	.0	.9
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.2	.3	.0	.0	.0	.6
7	.0	.0	.3	.1	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.6	2.7	.2	.0	.0	4.3	.2	1.2	1.1	.3	.1	.0	3.0

PERIOD: (OVER-ALL) 1962-1976

ANNUAL

AREA 0014 RAWSON
43.75 61.2W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.4	.0	.0	.0	.0	.4	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.2	.3	.0	.0	.0	1.5	.0	1.4	.0	.0	.0	.0	2.0
3-4	.0	.7	1.1	.2	.0	.0	2.0	.1	1.2	1.9	.1	.0	.0	3.2
5-6	.0	.3	.6	.4	.0	.0	1.3	.0	.1	2.1	.4	.0	.0	2.6
7	.0	.1	.7	.7	.0	.0	1.5	.0	.0	1.6	.9	.1	.0	2.6
8-9	.0	.0	.2	.2	.0	.0	.5	.0	.0	.9	.8	.0	.0	1.8
10-11	.0	.0	.1	.2	.3	.0	.6	.0	.0	.4	.4	.0	.0	.8
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.8	.0	.0	.9
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.2	.2	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.8	2.9	2.2	.4	.0	6.4	.2	3.3	7.3	3.7	.5	.0	15.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.4	.0	.0	.0	.0	1.4	.1	.3	.0	.0	.0	.0	.8	
1-2	.1	1.5	1.2	.0	.0	.0	2.8	.0	2.1	1.5	.0	.0	.0	3.6	
3-4	.2	1.2	1.0	.1	.0	.0	2.5	.0	2.1	3.4	.8	.0	.0	6.4	
5-6	.0	.1	1.5	.6	.0	.0	2.2	.0	.2	3.1	.9	.0	.0	4.3	
7	.0	.0	1.2	.4	.0	.0	1.7	.0	.0	1.7	1.2	.0	.0	2.9	
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.3	.7	.0	.0	1.2	
10-11	.0	.0	.1	.3	.0	.0	.6	.0	.0	.4	.3	.0	.0	.7	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	3.4	3.4	.1	.1	.0	12.0	.1	3.0	10.6	4.3	.0	.0	20.0	94.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	3.9	.3	.0	.0	.0	11.7	
1-2	.7	12.0	6.4	.0	.0	.0	19.2	
3-4	.3	8.2	12.3	1.3	.0	.0	22.5	
5-6	.0	1.8	12.1	3.7	.0	.0	17.7	
7	.0	.4	8.1	4.8	.1	.0	13.3	
8-9	.0	.0	3.4	2.8	.1	.0	6.3	
10-11	.0	.1	1.2	2.9	.4	.0	4.7	
12	.0	.0	.0	2.3	.0	.0	2.6	
13-16	.0	.0	.0	1.0	.4	.0	1.4	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.6	26.5	44.1	19.3	1.5	.0	100.0	4153

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.4	9.4	14.1	6.4	3.3	1.3	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2214	4
6-7	.0	.7	3.7	6.1	7.1	4.6	2.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1163	6
8-9	.0	.3	1.2	1.7	2.3	1.3	2.0	1.9	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	407	8
10-11	.0	.0	.3	.8	.6	.4	.6	.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	7
12-13	.0	.0	.0	.5	.4	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	174	5
14-15	.0	.0	.0	.2	.8	.4	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	3
16-17	.0	.0	.0	.0	.4	.4	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	764	3
TOTAL	3.8	2.4	2.2	1.6	1.4	1.0	.7	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4978	5
PCT	9.2	11.5	22.3	19.5	15.9	9.2	7.2	4.1	2.4	.3	.1	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1976
(OVER-ALL) 1854-1976

TABLE 20

AREA 0014, RAMSON
43.75 61.24

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
98+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	1.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	4.2	4.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	14.2	17.0	8.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	28.9	18.7	13.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	21.1	18.0	17.4	5.4	.1	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	11.4	13.9	17.3	13.8	1.3	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	9.3	12.6	18.1	20.8	3.2	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	5.4	8.9	9.7	21.1	9.1	1.9	.0	.0	.0	.0	.0	.0	0	.0
51/52	2.8	4.9	8.2	14.3	15.4	3.3	1.6	.3	.0	.0	.0	.0	0	.0
49/50	1.1	2.9	4.1	11.6	23.3	10.3	3.0	1.8	.8	17.7	18.8	6.4	20.8	8.7
47/48	.3	1.0	1.0	3.7	21.2	20.3	12.3	8.9	14.7	15.0	7.8	2.9	23.8	10.8
45/46	.0	.2	.0	4.2	17.6	31.6	33.6	28.3	36.9	25.1	4.3	1.0	34.3	14.3
43/44	.0	.0	.1	.3	3.8	21.0	32.3	40.3	29.3	8.7	1.8	.0	23.8	10.8
41/42	.0	.0	.0	.0	.7	9.3	12.3	16.4	10.7	3.8	.1	.0	9.9	4.1
39/40	.0	.0	.0	.0	.1	.8	3.2	4.8	3.2	.4	.0	.0	2.6	.9
37/38	.0	.0	.0	.0	.1	.1	.1	.6	.8	.0	.0	.0	.0	.1
35/36	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2933	1972	1864	1234	1647	2038	1913	1634	1734	2239	2741	2403	23834	100.0
MEAN	59.5	58.8	57.3	53.3	49.0	43.9	46.7	43.9	44.7	47.2	52.6	55.8	51.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL 000
JAN	1008	1008	1009	1007	1009	1008	1010	1007	1009	1988
FEB	1008	1011	1007	1010	1009	1010	1007	1011	1009	1432
MAR	1012	1012	1013	1011	1013	1012	1012	1012	1012	1343
APR	1012	1011	1014	1011	1011	1011	1011	1011	1011	802
MAY	1012	1012	1013	1011	1012	1011	1010	1011	1012	1187
JUN	1010	1010	1012	1010	1011	1011	1011	1009	1010	1474
JUL	1012	1012	1011	1012	1012	1012	1012	1012	1012	1312
AUG	1011	1012	1011	1012	1013	1012	1012	1012	1012	1030
SEP	1017	1017	1018	1016	1018	1016	1017	1016	1017	1013
OCT	1014	1013	1016	1012	1014	1012	1013	1012	1014	1736
NOV	1011	1011	1011	1011	1011	1010	1011	1011	1011	2299
DEC	1009	1009	1010	1008	1010	1009	1010	1008	1009	1889
ANN	1011	1012	1012	1011	1012	1011	1011	1011	1011	17349
DBS	3148	1717	1378	1730	3228	2736	1600	1732		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	987	993	997	1003	1008	1014	1021	1024	1027
FEB	987	992	998	1004	1007	1013	1021	1023	1028
MAR	982	993	1000	1007	1012	1017	1023	1026	1032
APR	980	989	997	1003	1012	1018	1026	1030	1032
MAY	983	989	996	1003	1012	1018	1027	1030	1033
JUN	986	989	994	1004	1010	1017	1026	1030	1033
JUL	983	989	996	1003	1012	1019	1028	1034	1037
AUG	982	987	994	1003	1012	1019	1028	1034	1036
SEP	987	992	1000	1010	1017	1024	1032	1036	1040
OCT	986	996	1001	1008	1013	1019	1029	1033	1037
NOV	981	993	998	1007	1012	1018	1022	1026	1034
DEC	991	993	996	1003	1009	1014	1022	1025	1030

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971

JANUARY

AREA 0015 PUERTO RSEADO
47.93 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.9	.0	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	96.1
NE	.0	20.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	87.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	4.9	3.7	.0	.0	.0	.0	.0	8.6	.0	.0	2.3	.0	.0	.0	88.9
SW	2.3	.6	.0	.0	.0	.0	.0	2.9	4.8	.0	1.2	.0	.0	.0	86.1
W	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	.0	.0	.0	.0	99.9
NW	4.3	.0	8.7	.0	.0	.0	.0	13.0	4.3	.0	.0	.0	.0	.0	82.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.0	2.0	1.4	.0	.0	.0	.0	5.4	4.1	.0	.7	.0	.0	.0	89.9
TOT OBS:	148														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	.0	2.8	.0	.0	.0	.0	.0	2.8	7.8	.0	2.8	.0	.0	.0	91.7
0600Z	2.9	3.9	2.9	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	88.2
1201Z	2.1	.0	.0	.0	.0	.0	.0	2.1	4.2	.0	2.1	.0	.0	.0	91.7
1802Z	2.9	.0	2.9	.0	.0	.0	.0	5.7	8.6	.0	.0	.0	.0	.0	83.7
TOT PCT TOT OBS:	2.0 153	2.0	1.3	.0	.0	.0	.0	5.2	3.9	.0	1.3	.0	.0	.0	89.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	.9	4.4	4.7	.9	.2	.0		11.0	12.2		14.4	15.3	18.8	12.1	7.2	9.1	14.1
NE	.2	2.3	2.0	.1	.0	.0		4.7	11.2		4.6	2.5	.9	4.1	5.4	5.1	6.3
E	.5	1.0	.9	.0	.0	.0		2.4	9.1		3.9	3.5	.0	1.3	2.4	2.1	.0
SE	.9	1.7	1.1	.1	.1	.0		3.2	10.0		3.3	4.1	4.5	3.7	1.4	3.8	3.1
S	1.0	3.8	3.4	1.4	.6	.0		10.2	14.2		9.8	8.4	17.0	10.4	11.3	10.2	3.3
SW	1.8	5.6	7.7	4.3	2.8	1.2		24.0	19.9		18.2	15.8	18.8	24.3	29.5	27.8	34.4
W	1.3	8.3	9.0	3.6	.6	.6		23.4	19.3		20.9	20.8	24.1	22.0	24.9	23.0	24.2
NW	1.3	6.6	9.0	1.9	.3	.0		19.1	12.9		22.8	22.3	12.3	20.9	16.8	13.6	20.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		2.2	1.3	3.6	1.3	1.1	3.7	.0
TOT OBS	113	409	459	192	96	23	1212		14.7		181	197	28	199	190	312	32
TOT PCT	9.3	33.7	37.9	12.3	4.6	1.9	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	2.3	5.9	2.2	.4	.1			11.0	12.2		14.8	13.1	8.4	9.1	
NE	1.1	2.7	.8	.1	.0			4.7	11.2		3.6	3.0	5.2	6.1	
E	.9	1.1	.4	.0	.0			2.4	9.1		3.7	1.1	2.2	2.2	
SE	1.0	1.6	.3	.1	.0			3.2	10.0		2.7	3.6	2.9	2.7	
S	2.1	4.3	2.1	1.3	.2			10.2	14.3		9.2	11.4	10.7	9.6	
SW	3.6	7.9	5.8	4.0	2.5			24.0	19.9		17.1	23.7	28.4	24.9	
W	3.7	10.8	6.2	1.3	.9			23.4	19.3		23.6	22.3	23.7	23.1	
NW	3.3	10.0	5.1	.3	.1			19.1	12.9		22.6	19.7	16.1	20.3	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.1							2.1	.0		1.8	1.6	2.4	2.2	
TOT OBS	249	540	278	99	46	1212			14.7		338	187	302	183	
TOT PCT	20.3	44.6	22.9	8.2	3.8	100.0					100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1870-1971

JANUARY

AREA 0015 PUERTO DESEADO
47.95 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.8	7.4	36.4	36.7	13.9	2.4	1.3	14.0	100.0	330
0600Z	1.6	8.6	33.7	39.0	10.7	5.3	1.1	14.5	100.0	187
1200Z	2.4	7.0	31.9	36.7	13.5	6.2	2.4	19.5	100.0	502
1800Z	2.2	6.3	34.1	42.2	9.2	3.8	2.2	14.3	100.0	185
TOT	25	88	409	459	152	56	23	14.7		1212
PCT	2.1	7.3	33.7	37.9	12.5	4.6	1.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	3.5	6.1	6.5	2.4		4.5
NE	.7	.2	1.1	.7		5.3
E	.0	.9	.9	.0		4.5
SE	.0	.4	.2	2.0		7.2
S	2.8	3.0	2.8	4.8		5.4
SW	7.8	5.2	8.0	5.4		4.5
W	3.7	1.7	3.4	.9		3.7
NW	3.9	3.9	3.4	3.5		4.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.9	.0		5.3
TOT OBS	29	27	36	23	115	4.6
TOT PCT	25.2	23.5	31.3	20.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

BY WIND DIRECTION						MEAN												
WIND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
							149	299	599	999	1999	3499	4999	6499	7999			
N	3.5	6.1	6.5	2.4		4.5	.0	.0	.0	.0	1.7	.9	1.1	.7	.0	.9	13.3	
NE	.7	.2	1.1	.7		5.3	.0	.0	.0	.0	.0	.0	.9	.2	.0	.0	1.1	
E	.0	.9	.9	.0		4.5	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9	
SE	.0	.4	.2	2.0		7.2	.0	.2	.0	.2	.9	.0	.0	.0	.9	.0	.4	
S	2.8	3.0	2.8	4.8		5.4	.0	.7	.0	.7	3.0	1.7	.9	.7	.0	.0	5.9	
SW	7.6	5.2	8.0	5.4		4.5	.0	.0	.0	2.6	.9	5.2	.0	.4	.0	.9	16.5	
W	5.7	1.7	5.4	.9		3.7	.0	.0	.0	.0	2.2	.0	.0	.7	.0	.0	10.9	
NW	3.9	5.9	3.4	3.5		4.4	.0	.0	.0	.9	1.7	.9	1.3	.0	.0	.0	13.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.9	.9		5.3	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.7	
TOT OBS	29	27	36	23	115	4.6	.0	1	.0	5	12	11	5	4	1	2	74	115
TOT PCT	25.2	23.5	31.3	20.0	100.0		.0	.9	.0	4.3	10.4	9.6	4.3	3.5	.9	1.7	64.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VISIB (NM)

CEILING (FEET)	VISIB (NM)							
	>10	>8	>6	>4	>3 1/2	>3	>2 1/2	>2
>1500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>1000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>500	9.3	9.3	10.2	10.2	10.2	10.2	10.2	10.2
>2000	11.9	16.9	17.8	18.6	19.5	19.5	19.5	19.5
>1000	19.8	26.3	28.0	28.8	29.7	29.7	29.7	29.7
>500	23.7	30.5	32.2	33.1	33.9	33.9	33.9	33.9
>200	23.7	30.5	32.2	33.1	33.9	33.9	33.9	33.9
>100	23.7	31.4	33.1	33.9	34.7	34.7	34.7	34.7
>0	23.7	31.4	33.1	33.9	34.7	34.7	34.7	34.7
TOTAL	28	37	39	40	41	41	41	41

TOTAL NUMBER OF OBS: 118

PCT FREQ NM <5/8: 65.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
17.1	18.7	7.3	10.6	9.8	8.1	4.9	6.5	17.1	.0	123

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1970-1971

JANUARY

AREA 0015 PUERTO DESEADO
47.55 63.04

TABLE 2

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.7
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.7
1/2<1	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7
1<2	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.0	.0	.2	.3	.7	.0	.0	1.4	1.4
	TOT %	.0	.0	.0	.0	.0	.2	.3	1.4	.0	.0	2.0	2.0
5<10	PCP	.7	.7	.0	.0	.5	.2	.0	1.4	.0	.0	3.4	3.4
	NO PCP	1.4	.7	2.0	.2	1.4	3.2	.7	.7	.0	.0	12.2	12.2
	TOT %	2.0	1.4	2.0	.2	1.9	3.4	.7	2.0	.0	.0	15.9	15.9
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	15.4	2.0	1.0	3.7	10.8	22.6	11.1	12.2	.0	2.0	80.4	80.4
	TOT %	15.4	2.0	1.0	3.7	10.8	22.6	11.1	12.2	.0	2.0	80.4	80.4
TOT OBS													
TOT PCT													
		17.4	3.4	3.0	3.4	13.7	29.2	12.3	15.9	.0	2.0	100.0	148

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PC	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.3	.6	.3	.0	.0	.0	.0	1.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.4	1.1	.0	.0	.0	1.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.4	1.1	.0	.0	.0	1.7
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3
	11-21	1.7	.0	1.1	.0	.0	1.1	.0	2.2	.0	.0	.0	6.7
	22+	.0	.0	.0	.1	1.3	2.0	.0	.0	.0	.0	.0	3.9
	TOT %	2.2	1.1	1.7	.1	1.3	4.3	.0	2.2	.0	.0	.0	14.0
10+	0-3	1.3	.1	.0	.0	.0	.3	.0	.0	.0	1.7	.0	6.7
	4-10	5.3	2.0	.3	1.3	3.2	3.4	4.9	6.4	.0	.0	.0	29.1
	11-21	10.3	.0	.0	.0	5.4	10.1	5.0	6.7	.0	.0	.0	38.5
	22+	.0	.0	.0	.0	.0	6.6	.7	.0	.0	.0	.0	7.0
	TOT %	16.9	2.3	.3	2.9	9.3	22.3	11.2	14.2	.0	1.7	.0	82.1
TOT OBS													
TOT PCT													
		9.1	3.6	2.3	3.1	11.9	28.1	12.4	17.6	.0	1.7	100.0	179

JANUARY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1870-1971AREA 0015 PUERTO RICO
47.5C 63.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	.0	3.7	.0	7.4	.0	11.1	11.1	.0	.0	.0	33.3	66.7	27
06009	.0	.0	.0	3.6	21.4	3.6	.0	3.6	.0	.0	32.1	67.9	28
12015	.0	.0	.0	2.8	8.3	3.6	2.6	3.6	.0	.0	25.0	75.0	36
18021	.0	.0	.0	3.6	10.7	17.9	3.6	3.6	3.6	7.1	50.0	50.0	28
TOT	0	1	0	5	12	11	5	4	1	2	41	78	119
PCT	.0	.8	.0	4.2	10.1	9.2	4.2	3.4	.8	1.7	34.3	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.0	.0	.0	2.0	16.3	79.6	49
06009	2.5	2.5	.0	2.5	15.0	77.5	40
12015	1.8	.0	1.8	1.8	10.7	83.9	36
18021	.0	.0	.0	.0	12.6	87.2	39
TOT	3	1	1	3	25	191	184
PCT	1.6	.5	.5	1.6	13.6	82.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <3/8 ANY HGT	TOTAL OBS
00003	.0	3.7	11.1	22.2	66.7	27
06009	.0	3.7	11.1	22.2	66.7	27
12015	.0	.0	8.3	16.7	75.0	36
18021	.0	.0	3.6	46.4	50.0	28
TOT	0	2	10	31	77	118
PCT	.0	1.7	8.5	26.3	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.7	.7	.0	.0	2	1.4
69/69	.0	.0	.0	.0	1.4	2.7	2.0	.0	9	6.1
68/64	.0	.0	.0	.7	2.7	5.4	6.8	.0	35	23.8
59/59	.0	.0	.0	.7	6.1	10.9	7.0	4.8	61	41.5
50/54	.7	.0	.0	2.0	4.1	4.1	14.3	1.4	38	25.9
45/49	.0	.0	.0	.0	.0	.0	1.4	.0	2	1.4
TOTAL	0	0	0	5	22	35	26	2	147	100.0
PCT	.0	.0	.0	3.4	15.0	23.8	40.1	17.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	1.2	.2	.0	.0
69/69	1.4	.0	.7	.0	.7	.0	1.2	1.4	.0	.0
68/64	4.9	1.0	1.4	1.4	.5	3.6	3.9	5.1	.0	2.0
59/59	9.4	.9	.7	2.2	7.5	9.7	3.7	7.8	.0	.0
50/54	2.2	.2	.0	.7	3.4	11.9	3.7	3.7	.0	.0
45/49	.0	.0	.0	.0	.3	.3	.5	.0	.0	.0
TOTAL	17.9	1.7	2.7	4.3	12.6	26.4	14.3	16.2	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	65	61	55	50	47	46	55.5	323
06009	66	63	61	55	48	46	46	54.8	184
12015	71	68	65	57	50	47	46	57.1	480
18021	73	72	66	58	51	48	46	53.1	149
TOT	73	68	64	56	50	47	46	56.5	1100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.7	10.8	24.3	40.5	21.6	32	37
06009	.0	3.0	9.0	27.3	42.4	24.2	33	33
12015	.0	2.3	15.9	22.7	40.9	18.2	30	44
18021	.0	3.3	26.3	23.7	34.2	10.5	26	38
TOT	0	3	22	37	60	28	0	132

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1970-1971

JANUARY

AREA 0015 PUERTO DESEADO
47.55 63.04

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	% FOG	NO FOG
11/13	.0	.0	.0	1.4	.0	.0	2	.0	1.4
9/10	.0	.0	.0	.0	.7	.0	1	.0	.7
7/8	.0	.0	.7	1.4	2.1	.7	7	.0	4.8
6	.0	1.4	.0	.7	2.1	.0	6	.0	4.1
5	.0	.0	.0	2.1	4.1	2.7	13	.0	8.9
4	.0	.7	2.1	1.4	.0	.0	6	.0	4.1
3	.0	.7	2.7	8.2	1.4	.0	19	.0	19.0
2	.0	1.4	4.8	2.1	1.4	.0	14	.0	9.8
1	.0	.7	3.4	4.1	.7	.0	13	.0	17.8
0	.0	4.1	7.8	4.8	1.4	.0	28	.0	11.0
-1	.7	4.1	4.1	2.1	.0	.0	18	.0	3.4
-2	.0	.7	1.4	1.4	.0	.0	3	.0	4.8
-3	.7	4.1	.7	.0	.0	.0	8	.0	4.1
-4	.7	1.4	2.1	.0	.0	.0	6	.0	2.7
-7/-8	1.4	.7	.7	.0	.0	.0	4	.0	1.4
TOTAL	3	29	44	20	5	146	100.0	.7	99.3
PCT	3.4	19.9	30.1	29.9	13.7	3.4			

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	.0	9.8	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.5	7.3	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	.4
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.7
10-11	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.5	19.2	.0	.0	.0	21.9	.4	.0	1.2	.0	.0	.0	1.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.5	.0	.0	.0	.0	.0	3.1	.0	1.5	.4	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	1.5	1.3	.0	.0	.0	4.8	.0	1.5	.4	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0013 PUERTO RISEADO
47.95 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
1-2	.0	1.5	2.7	.0	.0	.0	5.4	.0	1.5	1.5	.0	.0	.0	3.5
3-4	.0	1.5	1.5	.0	.0	.0	3.1	.0	1.5	1.5	.0	.0	.0	3.5
5-6	.0	.0	3.1	.0	.0	.0	3.1	1.5	.0	3.1	.0	.0	.0	4.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	.0	.0	4.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.1	.0	4.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.1	4.8	.0	.0	.0	13.1	1.9	3.5	7.7	7.7	9.1	.0	23.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.5	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	1.5	1.2	.0	.0	.0	2.7	.0	1.5	3.8	.0	.0	.0	10.0	
3-4	.0	3.8	.0	.0	.0	.0	5.8	.0	1.5	2.3	.0	.0	.0	3.8	
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.5	7.3	2.7	.0	.0	.0	11.5	.0	9.2	10.8	.0	.0	.0	20.0	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT D/S
<1	1.5	4.5	9.0	.0	.0	.0	9.0	
1-2	4.5	13.4	14.4	.0	.0	.0	32.8	
3-4	1.5	11.9	13.4	.0	.0	.0	26.9	
5-6	1.5	.0	11.9	.0	.0	.0	13.4	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	3.0	4.9	.0	.0	7.9	
10-11	.0	.0	.0	.0	.0	.0	1.5	
12	.0	.0	.0	1.5	3.0	.0	4.5	
13-16	.0	.0	.0	1.5	.0	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	39.9	50.7	7.9	3.0	.0	100.0	67

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	11.7	16.0	9.6	3.7	2.7	1.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
6-7	.0	.0	2.1	11.7	2.1	2.1	1.1	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
8-9	.0	.0	4.3	4.3	2.1	2.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
10-11	.0	.0	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
15-19	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDFT	1.1	3.2	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	5
TOTAL	2	14	22	27	7	10	3	6	3	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	2.1	14.9	23.4	28.7	7.4	10.6	3.2	6.4	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

FEBRUARY

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973AREA 0015 PUERTO RSEADO
47.45 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	.0	.0	.0	2.7	.0	90.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0	95.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	87.5
SW	.0	.0	3.4	.0	.0	.0	.0	3.4	6.7	.0	.0	.0	.0	.0	89.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.8	.0	.0	.0	.0	.0	.0	.8	.0	3.1	3.1	.0	.8	.0	92.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	.0	.7	.0	.0	.0	.0	2.2	1.5	.7	1.3	.0	.7	.0	93.4
TOT OBS:	197														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.0	.0	3.0	.0	.0	.0	.0	6.1	.0	.0	3.0	.0	3.0	.0	87.9
0600	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	3.7	.0	.0	.0	.0	91.4
1200	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	97.3
1800	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	2.8	.0	2.8	.0	91.7
TOT PCT TOT OBS:	1.4 141	.0	.7	.0	.0	.0	.0	2.1	1.4	1.4	1.4	.0	1.4	.0	92.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	06	06	09	12	15	21
N	.8	5.2	5.9	1.7	.3	.0		13.8	13.5	19.4	15.5	13.0	13.1	11.0	8.9	19.2	18.0
NE	.6	3.6	1.5	.2	.0	.0		5.9	9.0	7.7	7.0	4.0	2.9	3.0	6.5	5.0	5.9
E	.6	2.0	1.7	.3	.0	.0		4.6	10.6	3.2	4.2	.0	7.0	7.4	3.8	1.7	4.1
SE	.7	3.3	2.1	.3	.1	.0		6.5	10.1	8.8	8.2	4.0	5.4	6.0	5.0	6.7	6.9
S	.7	3.4	4.3	1.2	.6	.1		10.3	14.9	12.6	8.6	7.0	9.6	10.4	10.8	.0	11.7
SW	.7	6.2	7.0	3.4	.9	.1		18.3	16.0	15.6	16.8	13.0	18.8	18.7	22.2	18.3	14.8
W	1.3	6.2	7.4	2.8	.3	.2		18.3	13.6	9.5	16.1	28.0	19.1	21.3	22.9	24.2	14.7
NW	1.3	6.8	8.7	3.2	.4	.2		20.5	14.1	22.1	23.0	27.0	20.4	17.3	18.5	23.0	22.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.2	.6	.0	3.8	2.9	1.7	.0	1.9
TOT OBS	103	434	457	155	30	8	1107		13.4	173	183	23	157	173	302	30	160
TOT PCT	8.7	36.6	39.3	14.1	2.5	.7		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.7	5.9	4.4	.3	.1	13.8	13.5	17.5	13.3	9.7	18.2	
NE	2.3	2.6	.7	.0	.0	5.9	9.0	7.3	3.0	5.9	5.8	
E	1.1	2.7	.8	.0	.0	4.6	10.6	3.7	6.0	9.0	3.7	
SE	2.3	3.2	.9	.0	.1	6.5	10.1	8.5	5.2	5.3	6.8	
S	1.9	4.7	2.3	1.1	.3	10.3	14.9	10.7	9.2	10.6	9.9	
SW	2.6	7.7	5.5	1.9	.3	18.3	16.0	16.2	18.3	20.9	13.4	
W	4.2	8.0	4.8	1.1	.3	18.3	13.6	12.7	20.7	22.3	16.2	
NW	4.0	9.3	6.0	.9	.3	20.5	14.1	22.6	21.1	18.0	24.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9					1.9	.0	.9	3.1	2.1	1.6	
TOT OBS	278	523	302	66	18	1107	13.4	338	182	477	190	
TOT PCT	23.4	44.1	25.4	5.6	1.5		100.0	100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	.9	6.8	38.8	39.6	11.8	1.8	.3	12.9	100.0	338
0600	3.3	7.1	36.3	39.6	12.1	1.6	.0	12.6	100.0	182
1200	2.1	6.9	34.0	38.4	14.3	3.4	1.0	14.0	100.0	477
1800	1.6	6.3	39.5	35.8	13.2	2.6	1.1	13.3	100.0	190
TOT	22	81	434	457	133	30	8	13.4		1167
PCT	1.9	6.8	36.6	38.3	13.1	2.5	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSO	TOTAL OBS	MEAN CLOUD COVER
N	4.0	5.3	2.7	5.3		4.6
NE	.0	1.8	1.1	2.0		5.3
E	.0	.0	.0	.0		.0
SE	.0	.0	1.8	1.1		5.6
S	.0	.9	2.2	2.2		6.3
SW	4.9	3.8	8.6	6.4		5.1
W	4.9	4.0	9.3	4.4		4.9
NW	6.8	2.9	10.6	2.4		4.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	24	21	41	27	113	5.0
TOT PCT	21.2	18.6	36.3	23.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	100	300	400	1000	2000	3000	4000	6000	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	399	999	1999	3499	4999	6499	7999			
.9	.0	.0	.7	4.2	.0	.0	.0	.0	.7	10.5	
.0	.0	.0	.9	1.1	.0	.0	.0	.0	.0	2.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.0	.0	.9	.0	.0	.0	.0	1.8	
.7	.0	.0	1.5	.0	.7	1.5	.0	.0	.0	.9	
.0	.0	.0	1.1	3.5	3.5	.2	.0	.2	.0	13.1	
.0	.0	.0	.0	2.2	3.8	.4	.9	1.3	1.8	11.5	
.0	.0	.0	.2	1.1	1.8	.0	.0	.2	.2	19.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.2	.0	.0	.3	1.6	1.2	.4	1	2	3	6.8	113
1.8	.0	.0	4.4	14.2	10.6	3.9	.9	1.8	2.7	60.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				OR			
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>4000	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
>3000	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>2000	7.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
>1000	13.9	19.1	19.1	19.1	19.1	19.1	19.1	19.1
>600	27.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
>400	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>300	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>150	30.4	36.3	37.4	37.4	37.4	37.4	37.4	37.4
>0	30.4	36.3	38.3	38.3	38.3	38.3	39.1	39.1
TOTAL	35	42	44	44	44	44	45	45

TOTAL NUMBER OF OBS: 113

PCT FREQ NM <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSO	TOTAL OBS
19.5	12.7	13.6	11.0	9.1	5.1	11.0	7.6	12.7	113

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AREA 0013 PUERTO RISEADO
47.4S 63.0W

TABLE 8

		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VA") VALUES OF VISIBILITY										PCT	TOTAL OBS
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.7
	TOT S	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2-5	PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	1.5
	TOT S	.7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	2.2
5<10	PCP	.9	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	1.4
	NO PCP	2.9	.4	.7	1.8	1.8	5.8	1.5	5.5	.0	.0	.0	20.4
	TOT S	3.9	.4	.7	1.8	1.8	6.6	1.5	5.7	.0	.0	.0	21.9
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	19.9	4.4	.0	2.2	1.3	19.1	19.0	17.3	.0	.0	.0	73.2
	TOT S	19.9	4.4	.0	2.2	1.3	19.1	19.0	17.3	.0	.0	.0	73.2
TOT OBS													137
TOT PCT		20.1	4.7	.7	4.2	4.4	21.7	20.4	23.7	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2-5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.3	.0	.0	.3	1.1	.3	.0	.3	.0	.0	.0	2.7
	22+	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	1.6
	TOT S	.3	.3	.3	.3	1.6	.8	.0	.3	.0	.0	.0	4.4
5<10	0-3	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	1.1
	4-10	1.2	1.9	.3	1.4	.0	1.9	1.4	.4	.0	.0	.0	8.7
	11-21	1.1	.3	.0	.3	1.0	3.7	1.1	2.3	.0	.0	.0	10.4
	22+	.3	.0	.0	.0	.4	.1	.0	1.4	.0	.0	.0	2.2
	TOT S	2.6	2.3	.3	1.9	1.4	6.3	3.0	4.2	.0	.0	.0	22.4
10+	0-3	.0	.0	1.1	.0	.0	.1	1.0	1.1	.0	.0	.0	3.3
	4-10	4.2	2.6	.3	2.3	.0	3.3	7.4	3.8	.0	.0	.0	26.2
	11-21	7.4	1.2	.0	.0	2.0	8.3	4.9	9.8	.0	.0	.0	33.9
	22+	2.2	.0	.0	.0	.3	1.4	4.3	.7	.0	.0	.0	9.3
	TOT S	13.8	3.8	1.4	2.3	2.6	15.4	17.8	19.4	.0	.0	.0	72.7
TOT OBS													183
TOT PCT		16.9	6.6	2.2	4.8	6.0	22.3	20.8	20.2	.0	.0	100.0	

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47.4S 62.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 AMT HGT	TOTAL OBS
00003	3.7	.0	.0	3.7	11.1	11.1	11.1	.0	.0	.0	40.7	39.3	27
06009	3.7	.0	.0	7.4	7.4	.0	3.7	3.7	3.7	3.7	33.3	66.7	27
12015	.0	.0	.0	6.3	25.0	12.5	.0	.0	3.1	6.3	53.1	46.9	32
18021	.0	.0	.0	.0	9.4	15.6	.0	.0	.0	.0	25.0	75.0	32
TOT	2	0	0	5	16	12	4	1	2	3	45	73	118
PCT	1.7	.0	.0	4.2	13.6	10.2	3.4	.8	1.7	2.5	38.1	61.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	.0	.0	8.3	27.7	61.7	47
06009	.0	.0	.0	3.0	32.5	62.5	40
12015	.0	.0	.0	.0	17.3	82.7	32
18021	.0	.0	2.1	4.2	14.6	79.2	48
TOT	1	0	1	8	42	135	187
PCT	.5	.0	.5	4.3	22.5	72.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	3.7	3.7	7.4	33.3	39.3	27
06009	3.8	3.8	11.3	23.1	65.4	26
12015	.0	.0	6.3	46.9	46.9	32
18021	.0	.0	3.3	26.7	70.0	30
TOT	2	2	8	38	69	115
PCT	1.7	1.7	7.0	33.0	60.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
64/69	.0	.0	.0	.0	.0	1.7	.0	.9	3	2.6
69/64	.0	.0	.0	1.7	4.3	6.0	5.1	2.6	23	19.7
74/59	.0	.0	.0	2.6	8.0	13.7	12.0	6.8	45	41.0
79/54	.0	.0	.9	.0	4.3	11.1	15.4	2.6	40	34.2
84/49	.0	.0	.0	.0	.9	.9	.0	.9	3	2.6
TOTAL	0	0	1	5	18	39	38	16	117	100.0
PCT	.0	.0	.9	4.3	15.4	33.3	32.5	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
64/69	.0	.9	.0	.0	.0	.0	.0	.4	.0	.0
69/64	.0	.9	.0	.9	1.3	.4	4.7	3.3	.0	.0
74/59	.0	1.3	.4	.4	2.4	9.0	9.0	3.8	.0	.0
79/54	.0	1.3	.0	2.8	2.1	10.5	6.0	6.0	.0	.0
84/49	.0	.9	.0	.0	.6	1.1	.0	.0	.0	.0
TOTAL	20.3	5.1	.4	4.1	6.6	20.9	20.9	21.6	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	98%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	68	66	61	56	49	43	44	55.5	333
06009	63	62	61	53	48	43	44	54.6	182
12015	71	67	64	57	50	47	49	57.2	456
18021	71	69	65	55	50	47	48	57.8	174
TOT	71	67	64	56	50	46	44	56.4	1145

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.1	25.0	21.4	28.6	17.9	77	28
06009	.0	.0	21.4	35.7	32.1	10.7	78	28
12015	.0	5.9	8.8	41.2	23.5	20.6	79	34
18021	.0	6.5	6.5	32.3	48.4	6.5	79	31
TOT	0	6	18	40	40	17	78	121

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

FEBRUARY

AREA 0015 PUERTO DESEADO
47.48 63.0M

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	66 72	TOT	N FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.7	.7	1	.7	.0
9/10	.0	.0	.0	.0	.7	.7	.0	.0	2	.0	2.2
7/8	.0	.0	.0	.0	2.2	1.5	1.5	.0	7	.0	5.1
6	.0	.0	.0	.0	1.5	1.5	.0	.0	4	.0	2.9
5	.0	.0	.0	3.7	6.6	.7	.7	.0	16	.0	11.8
4	.0	.0	.0	.0	.7	.7	.0	.0	2	.0	1.5
3	.0	.0	.0	3.7	5.1	.7	.0	.0	13	.0	9.4
2	.0	.0	1.5	4.4	5.1	1.5	.0	.0	17	.0	12.3
1	.0	.0	2.9	9.6	2.2	.7	.0	.0	21	.0	15.4
0	.0	.0	4.4	6.6	.7	.7	.0	.0	17	.0	12.3
-1	.0	.0	3.7	4.4	1.5	.7	.0	.0	14	.0	10.3
-2	.0	.0	2.9	2.2	1.5	.0	.0	.0	10	.0	7.4
-3	.0	.0	1.5	2.2	.7	.0	.0	.0	6	.0	4.4
-4	.0	.0	.0	1.5	.0	.0	.0	.0	2	.0	1.5
-5	.7	.0	.0	.0	.0	.0	.0	.0	1	.0	.7
-7/-8	.0	.0	.0	.7	.0	.0	.0	.0	1	.0	.7
-9/-10	.0	.7	.0	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	1	2	23	33	39	13	4	1	136	1	132
PCT	.7	1.5	16.9	39.0	28.7	9.6	2.9	.7	100.0	.7	99.3

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.4	2.8	.0	.0	.0	5.2	.0	1.6	1.6	.0	.0	.0	3.2
3-4	.0	2.4	3.6	.0	.0	.0	6.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.8	3.2	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	16.3	3.2	.0	.0	24.2	.0	2.0	1.6	.0	.0	.0	3.6

MSY	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	.0	.0	.0	2.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.6	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	3.2
3-4	.0	1.2	2.8	1.2	.0	.0	5.2	.0	3.6	11.5	.4	.0	.0	15.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.0	.0	.0	.0	4.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	2.8	1.2	1.6	.0	6.7	.0	7.1	16.7	.4	.0	.0	24.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6	
1-2	1.6	3.2	.0	.0	.0	.0	4.8	.0	2.4	2.0	.0	.0	.0	4.4	
3-4	.0	1.2	.0	1.6	.0	.0	2.8	.0	2.0	6.0	.0	.0	.0	7.9	
5-6	.0	1.2	2.8	.0	.0	.0	4.0	.0	.0	2.0	.0	.0	.0	2.0	
7	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	4.4	.0	.0	.0	4.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0	
10-11	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	9.6	5.2	3.2	.0	.0	13.5	.0	4.4	17.9	.0	.0	.0	22.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	1.6	1.6	.0	.0	.0	4.7	
1-2	1.6	10.9	9.4	.0	.0	.0	21.9	
3-4	.0	10.9	29.0	3.1	.0	.0	39.1	
5-6	.0	3.1	9.4	.0	.0	.0	12.5	
7	.0	.0	9.4	3.1	.0	.0	12.5	
8-9	.0	.0	6.3	.0	.0	.0	6.3	
10-11	.0	.0	.0	1.6	1.6	.0	3.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	26.6	60.9	7.6	1.6	.0	100.0	64

PERIOD: (OVER-ALL) 1961-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.3	19.8	3.3	3.5	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	4
6-7	.0	.0	3.3	12.1	8.8	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	.0	2.2	4.4	2.2	1.1	1.1	.0	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	1.1	1.1	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
12-13	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	5
15-19	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDEX	1.1	2.2	9.9	.0	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
TOTAL	1	8	29	22	19	4	3	3	1	1	0	0	0	0	0	0	0	0	0	91	5
PCT	1.1	8.8	31.9	24.2	20.9	4.4	3.3	3.3	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0013 PUERTO DESEADO
47.4S 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	2.6	.0	.0	.0	.0	.0	5.2	.0	.0	9.0	.0	.0	.0	85.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	92.3
SW	6.8	.0	.0	.0	.0	.0	.0	6.8	6.8	.0	.0	.0	.0	.0	86.4
W	8.9	.0	.0	.0	.0	.0	.0	8.9	.0	.0	.0	.0	.0	.0	91.1
NW	2.7	.0	1.8	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.9	.6	1.1	.0	.0	.0	.0	3.6	1.7	.0	3.5	.0	.0	.0	89.4
TOT OBS:	180														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	3.9	.0	.0	.0	.0	.0	.0	3.9	2.0	.0	3.9	.0	.0	.0	88.2
0600Z	4.7	.0	4.7	.0	.0	.0	.0	9.2	.0	.0	4.7	.0	.0	.0	86.0
1200Z	.0	2.0	.0	.0	.0	.0	.0	2.0	2.0	.0	4.1	.0	.0	.0	91.8
1800Z	4.7	.0	.0	.0	.0	.0	.0	4.7	2.3	.0	.0	.0	.0	.0	93.0
TOT PCT TOT OBS:	3.8	.5	1.1	.0	.0	.0	.0	3.4	1.6	.0	3.2	.0	.0	.0	89.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.4	6.3	7.0	2.3	.4	.0		17.3	13.6		19.4	19.3	17.4	19.7	18.2	19.4	27.9	13.5
NE	.9	1.7	1.1	.5	.0	.0		2.8	11.8		4.4	3.0	3.0	4.7	4.2	3.3	5.9	2.9
E	.9	1.2	.2	.4	.0	.0		2.3	9.9		3.2	3.3	6.1	1.9	1.9	.0	.0	2.4
SE	.1	2.0	1.1	.6	.0	.0		3.7	12.1		4.5	4.8	4.8	2.2	3.7	3.4	2.9	3.4
S	.8	3.2	3.1	1.5	.7	.4		9.6	16.2		13.7	13.4	11.4	9.6	4.4	6.8	2.2	11.6
SW	1.0	4.3	6.4	4.7	3.1	1.1		20.6	21.5		18.7	16.2	16.4	19.9	23.1	22.9	16.2	21.7
W	1.0	6.4	7.6	3.3	.6	.1		19.2	14.5		12.7	16.7	19.7	20.6	18.8	23.0	12.5	20.9
NW	.7	7.1	9.0	4.4	.6	.0		21.7	19.1		21.8	21.3	23.3	19.2	22.0	21.4	24.3	23.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		1.4	2.0	.0	2.2	2.5	1.7	9.9	.0
TOT OBS	109	432	483	238	72	22	1350		19.6		221	196	33	180	203	292	34	189
TOT PCT	7.6	32.0	35.8	17.6	5.3	1.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.0	8.6	4.1	1.4	.1		17.3	13.6	19.3	19.4	19.4	19.7	
NE	.8	2.1	.7	.1	.0		3.8	11.8	3.9	4.3	3.6	3.4	
E	1.0	.8	.3	.1	.0		2.3	9.9	3.2	2.6	1.9	2.0	
SE	1.1	1.7	.9	.6	.0		3.8	12.1	4.8	2.6	3.6	3.4	
S	2.0	3.8	2.3	.6	.6		9.6	16.2	13.5	9.9	9.9	10.2	
SW	2.9	5.3	6.6	3.3	2.4		20.6	21.5	17.5	19.0	23.8	20.9	
W	2.8	9.4	3.4	1.3	.4		19.2	14.8	14.6	20.4	22.3	19.6	
NW	2.8	9.0	6.3	2.6	.0		21.7	19.1	21.6	19.6	21.7	24.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7						1.7	.0	1.7	1.9	2.0	.9	
TOT OBS	259	552	363	133	47	1350		19.6	419	213	493	223	
TOT PCT	18.9	40.9	26.9	9.9	3.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1903-1973
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AREA 0015 PUERTO DESEADO
47.45 62.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND			SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	1.7	6.7	37.7	32.5	15.5	5.3	.7	14.3	100.0	419	
0600Z	1.9	9.9	32.4	36.6	15.0	2.3	1.9	14.1	100.0	213	
1201Z	2.0	5.3	25.3	37.8	20.6	0.9	2.2	17.1	100.0	449	
1802Z	.9	2.2	35.9	16.8	17.5	4.9	1.8	15.9	100.0	223	
TOT	23	30	437	473	238	72	22	15.6		1350	
PCT	1.7	5.9	22.0	35.8	17.6	5.3	1.8	100.0			

PCT PREC OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WNO DIR	0-2	3-6	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	6.2	2.0	4.8	7.8		3.6
NE	1.0	.0	2.0	1.0		5.2
E	.0	2.0	.0	.0		3.5
SE	1.0	.0	.0	1.0		4.5
S	2.8	2.6	1.8	.5		3.5
SW	4.3	6.6	7.4	3.8		4.8
W	5.6	.0	3.6	3.3		4.3
NW	7.7	7.1	11.0	2.8		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	.0	.0		1.0
TOT OBS	32	20	30	16	98	4.1
PCT PCT	32.7	20.4	30.6	16.3	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 9/8$ BY WIND DIRECTION

[illegible]

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM 34/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >>10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR ≥90YD	= OR ≥0
= OR ≥3500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
= OR ≥3000	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR ≥2500	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR ≥2000	9.1	13.1	13.1	14.1	14.1	14.1	14.1	14.1
= OR ≥1000	21.2	26.3	26.3	27.3	27.3	27.3	27.3	27.3
= OR ≥600	21.2	26.3	26.3	27.3	27.3	27.3	27.3	27.3
= OR ≥400	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
= OR ≥150	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
= OR ≥ 0	22.2	27.3	27.3	28.3	28.3	28.3	28.3	28.3
TOTAL	22	27	27	28	28	29	29	30

PCT FREQ NH C5/D: 69.7

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	085C0	TOTAL C85
23.4	13.9	12.6	4.5	13.5	3.6	6.3	9.0	11.7	1.8	111

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973

MARCH

AREA 0015 PUERTO DESEADO
47.45 63.04

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.1	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.7
	TOT %	1.1	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
1<2	PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.1
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.3	.1	.0	.0	.0	.3	.3	2.0	.0	.0	.0	4.0
	TOT %	1.3	.1	.0	.0	.0	.3	.3	2.0	.0	.0	.0	4.0
5<10	PCP	1.1	.0	.0	.0	.0	.6	.6	1.1	.0	.0	.0	3.4
	NO PCP	9.6	.6	1.1	.6	2.0	1.4	9.7	8.2	.0	.0	.0	23.2
	TOT %	6.8	.6	1.1	.6	2.0	2.0	4.2	9.3	.0	.0	.0	26.6
10+	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6
	NO PCP	11.7	2.3	1.1	1.1	5.4	13.7	10.0	19.1	.0	1.1	.0	65.5
	TOT %	11.7	2.3	1.1	1.1	5.4	13.7	10.3	19.4	.0	1.1	.0	66.1
TOT OBS													
TOT PCT													
		21.9	3.0	2.3	1.7	7.3	16.3	15.4	31.2	.0	1.1	100.0	177

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.9	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.7	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.2	.2	1.1	.0	.0	.0	1.7
	11-21	1.2	.1	.0	.0	.0	.0	.0	.9	.0	.0	.0	2.2
	22+	.2	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	1.3
	TOT %	1.6	.1	.0	.0	.0	.7	.2	2.6	.0	.0	.0	5.2
5<10	0-3	.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	1.3
	4-10	.9	.4	.9	.0	.7	1.9	3.6	4.6	.0	.0	.0	8.3
	11-21	3.1	.4	.0	.4	.7	1.5	1.7	2.6	.0	.0	.0	10.3
	22+	1.3	.2	.0	.0	.9	.7	.9	.4	.0	.0	.0	4.4
	TOT %	5.7	1.1	1.3	.4	2.2	2.4	3.5	7.9	.0	.0	.0	24.3
10+	0-3	.9	.4	.0	.2	.2	.4	.0	.0	.0	1.7	.0	3.9
	4-10	6.6	.4	.7	.7	1.9	3.6	4.6	8.6	.0	.0	.0	24.9
	11-21	2.3	1.1	.4	.4	2.7	7.8	3.2	10.0	.0	.0	.0	27.9
	22+	.4	.0	.0	.0	1.3	4.9	1.5	1.4	.0	.0	.0	9.6
	TOT %	10.2	2.0	1.1	1.3	6.1	16.7	9.3	18.0	.0	1.7	.0	66.4
TOT OBS													
TOT PCT													
		19.4	3.4	2.4	1.7	8.3	20.2	13.6	29.1	.0	1.7	100.0	229

MARCH

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1855-1973AREA 0015 PUERTO RICO
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF N1 <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 599	300 999	400 1999	500 3499	600 4999	700 8499	800 7999	9000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	.0	10.5	.0	3.3	3.3	.0	.0	21.1	78.9	19
0600Z	3.6	.0	.0	.0	10.7	.0	3.6	3.6	.0	.0	21.4	78.6	28
1201Z	3.3	.0	.0	.0	13.3	6.7	.0	.0	.0	6.7	30.0	70.0	30
1802Z	.0	.0	3.6	.0	14.3	10.7	3.6	3.6	.0	3.6	39.3	60.7	28
TOT	2	0	1	0	13	3	3	3	0	3	30	70	105
PCT	1.9	.0	1.0	.0	12.4	4.8	2.9	2.9	.0	2.9	28.6	71.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	3.0	1.5	1.5	6.0	31.3	56.7	67
0600Z	2.0	2.0	.0	9.6	23.3	62.7	31
1201Z	1.6	.0	.0	3.3	70.8	61	61
1802Z	.0	.0	3.6	1.6	23.2	71.4	36
TOT	4	2	3	12	61	193	233
PCT	1.7	.9	1.3	5.1	26.0	83.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	3.3	21.1	73.7	19
0600Z	3.7	3.7	3.7	18.3	77.8	27
1201Z	3.7	3.7	3.7	29.6	66.7	27
1802Z	.0	3.6	7.2	34.6	57.7	26
TOT	2	3	3	26	68	99
PCT	2.0	3.0	3.1	26.3	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.3	.3	.0	2	1.1
66/64	.0	.0	.0	.0	1.6	3.3	2.2	.3	18	9.8
67/59	.0	.0	.0	.0	2.2	14.8	16.9	9.8	60	43.7
68/54	.0	.0	.0	3.6	3.6	3.3	16.4	10.4	69	37.7
69/49	.0	.0	.0	.9	1.1	4.9	1.1	.0	14	7.7
TOTAL	0	0	0	8	16	39	68	38	183	100.0
PCT	.0	.0	.0	4.4	8.7	20.0	37.2	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
65/69	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0
66/64	1.9	.0	.0	.0	1.1	.8	1.6	3.6	.0	.3
67/59	8.7	1.1	1.1	.3	1.9	7.0	6.4	16.9	.0	.0
68/54	10.2	1.2	.3	.0	2.2	8.9	3.7	8.9	.0	.0
69/49	.3	.0	.0	.3	1.9	1.1	2.3	.8	.0	.3
TOTAL	21.2	2.3	2.2	1.1	7.1	17.8	16.8	30.3	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	64	63	60	54	49	47	46	54.1	399
0600Z	64	60	59	54	48	47	47	52.6	206
1201Z	68	65	62	53	49	46	46	53.4	484
1802Z	69	65	63	56	49	48	46	56.4	203
TOT	69	64	61	55	49	47	46	54.9	1272

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	.0	7.8	29.4	33.3	29.4	83	31		
0600Z	.0	2.2	4.9	20.0	42.2	26.7	84	43		
1201Z	.0	6.0	8.0	32.0	40.0	14.0	80	30		
1802Z	.0	9.3	11.6	32.6	34.9	11.6	78	43		
TOT	0	8	17	34	71	39	81	163		

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PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1859-1973

TABLE 17

ARE J15 PUERTO DESARDO
47.45 63.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	1.1	.0	2	.0	1.1
7/8	.0	.0	.0	1.1	1.1	.0	6	.0	3.4
6	.0	.0	1.1	1.1	.0	.0	4	.0	2.2
5	.0	.0	.0	1.7	.0	.0	5	.0	2.8
4	.0	.0	2.2	3.4	.0	.0	11	.0	6.2
3	.0	2.2	2.8	1.7	1.1	.0	14	.0	7.9
2	.0	1.7	7.9	4.3	1.1	.0	27	.0	19.2
1	.0	4.5	6.2	2.8	.0	.0	24	.0	12.9
0	.0	4.5	6.7	2.2	.0	.0	26	1.7	17.9
-1	.0	5.6	6.2	.0	.0	.0	22	1.1	1.2
-2	.0	1.1	4.5	.0	.0	.0	10	.0	3.4
-3	1.7	2.2	2.8	.0	.0	.0	12	.0	6.7
-4	.0	.0	1.7	1.1	.0	.0	6	.0	3.4
-5	.0	1.7	.0	.0	.0	.0	4	.0	2.2
-6	.0	.0	.0	.0	.0	.0	3	.0	1.7
-7/-8	.0	.0	.0	.0	.0	.0	1	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	1	.0	.0
TOTAL	8	44	80	36	11	1	178	6	172
PCT	3.4	24.7	44.9	20.2	6.2	.6	100.0	3.4	96.6

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	2.3	2.3	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.8	.0	.0	.0	.0	12.8	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	22.1	2.3	.0	.0	.0	28.7	.0	.0	2.3	.0	.0	.0	2.3

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	4.7

PERIOD: (OVER-ALL) 1953-1975

MARCH

AREA 0015 PUERTO RISEADO
47.45 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	4.7
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.7	.0	.0	.0	7.0
3-4	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0	7.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	2.3	.0	.0	2.3	2.3	4.7	7.0	9.3	.0	.0	23.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	6.1	2.3	.0	.0	.0	10.3	.0
3-4	.0	4.1	.0	.0	.0	.0	4.1	.0	.6	7.0	.0	.0	.0	7.6	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0	9.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	2.3	2.3	.0	.0	8.7	.0	8.7	16.3	4.7	.0	.0	29.7	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	4.5	.0	.0	.0	.0	11.4	
1-2	.0	27.3	9.1	.0	.0	.0	36.4	
3-4	.0	4.5	9.1	2.3	.0	.0	15.9	
5-6	.0	6.8	6.8	2.3	.0	.0	15.9	
7	.0	.0	6.8	2.3	.0	.0	9.1	
8-9	.0	.0	.0	2.3	.0	.0	2.3	
10-11	.0	.0	.0	9.1	.0	.0	9.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.8	43.2	31.6	18.2	.0	.0	100.0	64

PERIOD: (OVER-ALL) 1950-1975

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	10.2	12.2	17.3	2.0	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	4
6-7	.0	2.0	5.1	7.1	6.1	1.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
8-9	.0	2.0	.0	1.0	2.0	4.1	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
10-11	.0	.0	3.1	1.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	1.0	1.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
TOTAL	2	15	26	27	12	6	5	2	3	0	0	0	0	0	0	0	0	0	0	98	3
PCT	2.0	15.9	26.5	27.6	12.2	6.1	5.1	2.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

APRIL

AREA 0015 PUERTO RIESAFO
47.53 63.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	#/DG WD PCPN #AST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	10.3	.0	.0	.0	86.9
NE	25.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	14.3	.0	.0	.0	40.7
E	71.4	.0	.0	.0	.0	.0	.0	71.4	.0	.0	.0	.0	.0	.0	28.6
SE	.0	44.4	.0	.0	.0	.0	.0	44.4	.0	.0	.0	.0	.0	.0	55.6
S	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0	10.7	.0	.0	.0	84.0
SW	.0	4.3	2.3	.0	.0	.0	.0	6.8	2.3	.0	.0	.0	.0	.0	90.9
W	.0	5.0	2.3	.0	.0	.0	.0	7.3	.0	2.3	8.8	.0	.0	.0	81.3
NW	1.6	.0	.0	.0	.0	.0	.0	1.6	.0	1.6	7.1	.0	.0	.0	89.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	2.2	.9	.0	.0	.0	.4	6.7	.9	.9	7.1	.0	.0	.0	84.4
TOT OBS:	224														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.9	.0	2.0	.0	.0	.0	2.0	7.8	2.0	2.0	5.9	.0	.0	.0	82.4
0600	6.5	.0	2.2	.0	.0	.0	.0	8.7	.0	2.2	4.3	.0	.0	.0	84.8
1200	2.7	5.3	.0	.0	.0	.0	.0	8.0	.0	.0	5.3	.0	.0	.0	84.0
1800	.0	1.8	.0	.0	.0	.0	.0	1.8	1.8	.0	8.8	.0	.0	.0	87.7
TOT PCT TOT OBS	3.1	2.2	.9	.0	.0	.0	.4	6.6	.9	.9	7.0	.0	.0	.0	84.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.6	3.9	3.3	2.0	.0	.0		11.9	14.0	11.9	11.6	14.1	7.8	13.0	12.3	21.5	11.4
NE	.4	1.1	1.3	.6	.0	.0		3.9	12.1	2.9	5.1	7.8	4.3	4.3	2.9	4.7	3.3
E	.2	1.2	.8	.3	.0	.0		2.3	12.0	1.5	2.6	.0	2.2	1.9	7.8	.0	2.6
SE	.3	1.8	1.3	.5	.2	.0		4.3	12.3	4.8	5.1	.0	4.6	4.3	4.1	.0	4.9
S	.8	3.4	3.1	1.7	1.2	.4		10.6	17.8	11.8	12.0	2.3	9.3	10.8	10.3	8.1	11.7
SW	.7	4.2	7.1	3.4	2.8	1.6		21.8	22.3	19.5	19.1	25.8	22.4	22.3	23.8	19.1	23.1
W	.6	4.3	9.2	5.1	1.3	.4		21.1	18.1	20.1	18.0	17.2	22.4	22.2	23.5	21.5	19.4
NW	.6	6.7	8.9	3.2	1.4	.3		22.6	17.4	25.9	24.7	32.8	24.4	20.7	18.1	24.1	21.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.5	1.7	.0	2.2	.3	1.4	.0	2.3
TOT OBS	81	348	482	273	91	35	1310	17.5		197	179	32	183	213	292	43	173
TOT PCT	6.2	26.6	36.8	20.8	6.9	2.7	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	2.0	3.3	3.9	.7	.0		11.9	14.0	11.8	8.7	12.6	13.4
NE	1.4	1.1	1.4	.6	.0		3.9	12.1	4.0	5.0	3.5	3.6
E	.7	1.0	.4	.2	.0		2.3	12.0	2.0	1.9	2.9	2.1
SE	1.7	1.3	.7	.4	.1		4.3	12.3	5.0	4.0	4.2	3.9
S	2.3	3.3	2.6	1.2	1.0		10.6	17.8	11.9	8.3	10.3	11.0
SW	2.0	6.3	6.8	3.9	2.8		21.8	22.3	19.4	22.9	23.2	21.6
W	2.3	7.7	8.3	2.0	.9		21.1	18.1	19.1	21.6	23.0	19.8
NW	2.4	8.1	9.0	2.3	.6		22.6	17.4	25.9	25.8	19.2	22.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.6	1.9	1.0	1.8
TOT OBS	210	451	434	143	72	1310	17.5		372	215	503	218
TOT PCT	16.0	34.4	33.1	10.9	5.5	100.0			100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

TABLE 4

AREA 0013 PUERTO RISEADO
47.33 62.1W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT	TOTAL
									FREQ	OBS
0000	1.6	5.6	27.2	40.3	17.5	5.1	2.7	16.4	100.0	372
0600	1.9	3.3	34.4	32.6	18.6	6.0	3.3	17.0	100.0	215
1200	1.0	5.1	25.0	33.3	24.2	8.5	3.0	18.3	100.0	505
1800	1.8	3.7	21.6	43.1	21.1	7.3	1.4	17.6	100.0	218
TOT	1.9	6.2	34.8	48.2	27.3	9.1	3.5	17.5		1310
PCT	1.3	4.7	26.6	36.8	20.6	6.9	2.7	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN
						CLOUD COVER
N	4.6	4.4	5.0	6.3		5.0
NE	.4	.8	.0	1.0		6.0
E	.0	.0	.8	.0		6.0
SE	.0	.0	.2	.8		7.8
S	2.1	.6	4.0	.8		4.7
SW	12.7	4.2	5.8	2.3		3.2
W	4.0	4.0	8.7	3.1		4.7
NW	15.8	2.1	6.3	3.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	45	21	40	24	130	4.2
TOT PCT	34.6	16.2	30.8	18.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3000	6000	8000+	NH	ANY	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	<5/8	4/8	OBS
N	1.5	.0	.8	1.5	3.7	1.7	.0	.0	.0	.0	11.2	
NE	.0	.0	.8	.0	.8	.2	.0	.0	.0	.0	1.3	
E	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.2	
S	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	5.2	
SW	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	21.9	
W	.0	.0	.0	.8	2.3	.8	3.5	.0	.0	.0	12.3	
NW	.0	.0	.0	1.5	.2	1.9	1.2	.0	.0	.8	16.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	0	5	13	8	7	0	0	0	1	90	130
TOT PCT	1.5	.0	1.5	5.2	11.3	6.2	3.4	.0	.0	.8	67.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM)	>1	>1/2	>1/4	>3000	>0
>OR 3000	.8	.8	.8	.8	.8	.8	.8	.8	.8
>OR 2000	.3	.8	.8	.8	.8	.8	.8	.8	.8
>OR 1500	3.8	5.3	3.3	6.1	6.1	6.1	6.1	6.1	6.1
>OR 1000	6.1	10.6	10.6	11.4	11.4	11.4	11.4	11.4	11.4
>OR 500	17.4	23.5	23.5	24.2	24.2	24.2	24.2	24.2	24.2
>OR 300	19.7	27.3	27.3	28.0	28.0	28.0	28.0	28.0	28.0
>OR 150	20.5	28.8	28.8	29.3	29.3	29.3	29.3	29.3	29.3
>OR >0	20.5	28.8	28.8	29.3	29.3	29.3	29.3	29.3	29.3
TOTAL	27	38	38	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 132

PCT FREQ NM <5/8: 68.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
									OBS
24.8	14.6	12.4	1.8	10.2	2.2	6.6	7.3	14.6	1.5
									137

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1871-1973

APRIL

AREA 2013 PUERTO RISEADO
47.85 63.14

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	1.3
	TOT %	.4	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.9	
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	NO PCP	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9
	TOT %	.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.3	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.9	.9
	TOT %	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.9	.9
5<10	PCP	.0	1.3	.9	.0	.0	.9	.9	.4	.0	.0	4.5	4.5
	NO PCP	6.3	2.5	.4	.0	3.1	4.7	5.4	12.6	.0	.0	35.0	35.0
	TOT %	6.3	3.8	1.3	.0	3.1	5.6	6.3	13.0	.0	.0	39.5	
10+	PCP	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	NO PCP	9.3	2.2	.0	.0	4.8	13.7	11.2	13.8	.0	.0	55.8	55.8
	TOT %	9.3	2.2	.0	.0	4.8	14.1	11.2	13.8	.0	.0	56.2	
TOT OBS													223
TOT PCT		17.2	6.1	1.3	1.0	8.4	19.7	17.9	26.4	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.4
	11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.1	1.1
2<5	0-3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	.4
	4-10	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4
	22+	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	.4
	TOT %	.2	.0	.0	.4	.2	.6	.0	.6	.0	.0	1.8	1.8
5<10	0-3	.0	.4	.0	.4	.0	.0	.0	1.1	.0	.0	1.8	1.8
	4-10	.5	.2	.9	.7	.7	.2	2.3	4.1	.0	.0	9.7	9.7
	11-21	3.0	1.9	.2	.0	1.4	2.3	2.0	3.2	.0	.0	14.0	14.0
	22+	1.7	.8	.7	.0	.4	2.3	1.4	2.7	.0	.0	10.0	10.0
	TOT %	5.2	3.3	1.8	1.1	2.5	4.8	3.7	11.1	.0	.0	35.5	35.5
10+	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	.4
	4-10	2.6	.2	.0	1.4	1.6	4.3	1.3	4.3	.0	.0	16.1	16.1
	11-21	3.0	2.0	.0	.4	2.4	3.0	6.3	6.4	.0	.0	25.8	25.8
	22+	3.0	1.4	.0	.0	1.1	3.4	4.3	2.8	.0	.0	17.9	17.9
	TOT %	8.6	3.6	.0	1.9	5.1	13.1	12.4	13.6	.0	.0	60.2	60.2
TOT OBS													279
TOT PCT		19.1	6.8	1.8	3.7	7.8	20.4	18.3	26.0	.0	.0	100.0	

APRIL

PERIOD: (P IMARY) 1964-1973
(OVER-ALL) 1871-1973

TABLE 10

AREA 0015 PUERTO DESEADO
47.55 63.14PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.2	20.8	8.3	12.3	.0	.0	4.2	50.0	50.0	24
06009	.0	.0	.0	.0	3.6	10.7	3.6	.0	.0	.0	17.9	82.1	28
12015	2.3	.0	2.3	2.3	14.0	4.7	7.0	.0	.0	.0	32.6	67.4	42
18021	2.5	.0	2.5	7.5	12.5	2.5	.0	.0	.0	.0	27.5	72.5	40
TOT	2	0	2	5	17	8	7	0	0	1	42	93	133
PCT	1.5	.0	1.5	3.7	12.6	5.9	5.2	.0	.0	.7	31.1	69.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	2.7	41.9	55.4	74
06009	1.9	.0	1.9	3.7	33.3	59.3	94
12015	2.2	.0	1.1	.0	34.9	60.9	92
18021	.0	1.6	1.6	1.6	29.7	65.6	84
TOT	3	1	3	5	101	171	284
PCT	1.1	.4	1.1	1.8	35.6	60.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	8.3	45.8	45.8	24
06009	.0	.0	3.7	14.8	81.5	27
12015	2.4	4.8	7.1	23.8	69.0	42
18021	2.6	5.1	15.4	15.4	69.2	39
TOT	2	4	12	31	89	132
PCT	1.5	3.0	9.1	23.5	67.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.5	1.8	.0	.5	6	2.8
59/59	.0	.0	.0	1.4	.9	3.0	9.6	4.1	46	21.1
50/54	.0	.0	.0	.5	5.0	7.8	21.6	12.4	109	47.2
49/49	.0	.0	.0	.9	2.8	5.0	7.8	7.3	52	29.9
40/44	.0	.0	.0	.9	.9	2.3	1.4	.0	11	5.0
TOTAL	0	0	0	7	22	48	88	93	218	100.0
PCT	.0	.0	.0	3.2	10.1	22.0	40.4	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.6	.5	.0	.0	.0	.0	.3	1.4	.0	.0
59/59	6.4	1.1	.0	.0	.5	1.6	3.3	9.2	.0	.0
50/54	8.4	2.5	.0	.0	3.1	7.5	7.9	17.3	.0	.0
49/49	2.1	3.0	.9	.9	2.5	6.2	4.8	3.4	.0	.0
40/44	.0	.0	.0	.1	2.4	2.3	.2	.0	.0	.0
TOTAL	18.0	6.1	.9	1.0	3.5	17.5	16.8	31.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	59	56	50	42	40	38	50.2	360
06009	61	58	57	50	47	39	39	49.8	210
12015	63	61	58	51	44	42	40	51.2	479
18021	62	60	58	52	44	40	39	51.7	216
TOT	63	60	57	51	43	40	38	50.8	1265

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	50-59	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.4	11.6	13.7	37.3	29.4	52	51
06009	.0	6.9	1.8	12.2	38.6	31.8	53	44
12015	.0	1.4	6.9	10.4	41.7	23.4	53	72
18021	.0	1.4	14.5	20.4	44.5	12.5	50	96
TOT	0	8	22	44	51	53	52	229

PERIOD: (PRIMARY) 1954-1973
(OVER-ALL) 1971-1973

APRIL

AREA 0015 PUERTO DESEADO
47.55 63.1W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 48	49 52	53 56	57 60	61 64	TCT	M FOG	MO FOG
9/10	.0	.0	.0	.0	.0	1.5	.0	3	.0	1.3
7/8	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.0	.0	1.8	1.8	.0	8	.0	3.6
5	.0	.0	.0	.0	3.9	1.8	.0	12	.0	5.3
4	.0	.0	.0	.4	4.0	.0	.4	21	.9	8.4
3	.0	.0	.0	4.4	4.2	.0	.0	26	1.8	9.8
2	.0	.0	.0	5.3	6.2	.0	.0	34	.4	14.7
1	.0	.0	.9	9.3	6.4	.4	.0	27	1.8	10.2
0	.0	.4	4.0	4.9	2.7	.0	.0	16	.4	6.7
-1	.0	.4	2.2	5.1	1.3	.0	.0	22	.9	8.9
-2	.0	.4	3.1	1.6	2.7	.0	.0	12	.0	5.3
-3	.0	.4	3.1	1.8	.0	.0	.0	9	.9	3.1
-4	.0	.4	.9	2.2	.4	.0	.0	9	.0	4.0
-5	.0	2.2	.9	.9	.0	.0	.0	3	.0	1.3
-6	.4	.0	.0	.9	.0	.0	.0	3	.0	1.3
-7/-8	.0	.4	.4	.4	.0	.0	.0	4	.0	1.6
-9/-10	.4	.4	.9	.0	.0	.0	.0	5	.0	1.3
-11/-13	.0	.0	1.3	.0	.0	.0	.0	16	.0	2.9
TOTAL	2	12	40	85	72	19	1	223	7.1	92.9
PCT	.9	5.3	17.8	37.8	32.0	9.8	.4	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1953-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	12.7	1.9	.0	.0	19.8	.0	.0	4.2	.0	.0	.0	4.2

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

TABLE 18 (CONT)

AREA 0019 PUERTO DESEADO
47.35 63.1W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	6.1	.0	.0	.0	.0	6.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	1.9	1.9	.0	.0	3.8	.0	.0	3.7	.0	.0	.0	3.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.9	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.9	1.9	.0	.0	7.1	1.9	6.1	8.0	1.9	.0	.0	17.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	8.0
3-4	.0	3.3	3.8	.0	.0	.0	7.1	.0	4.2	7.5	1.9	.0	.0	.0	13.7
5-6	.0	.0	3.3	1.9	.0	.0	5.2	.0	.0	6.1	.0	.0	.0	.0	6.1
7	.0	.0	5.2	1.4	.0	.0	6.6	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	12.3	3.3	.0	.0	16.9	.0	12.3	13.7	4.2	.0	.0	30.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.4	3.6	.0	.0	.0	.0	6.9	
1-2	1.8	17.9	1.6	.0	.0	.0	21.4	
3-4	.0	8.9	14.3	1.8	.0	.0	25.0	
5-6	.0	.0	25.0	3.6	.0	.0	28.6	
7	.0	.0	7.1	3.6	.0	.0	10.7	
8-9	.0	.0	1.8	.0	.0	.0	1.8	
10-11	.0	.0	.0	1.8	.0	.0	1.8	
12	.0	.0	.0	1.8	.0	.0	1.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	30.4	30.0	12.5	.0	.0	100.0	56

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-14	15-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	1.0	7.6	16.2	8.6	1.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
6-7	.0	.0	2.9	7.6	10.3	2.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
8-9	.0	.0	1.0	1.9	1.9	2.9	1.9	1.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
10-11	.0	.0	1.0	1.9	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12-13	.0	.0	1.9	1.9	1.0	1.9	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
13-14	.0	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
INDENT	1.9	.0	1.9	1.0	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
TOTAL	3	8	26	24	20	12	4	6	1	0	1	0	0	0	0	0	0	0	0	0	109	4
PCT	2.9	7.6	24.8	22.9	19.0	11.4	3.8	5.7	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

MAY

AREA 0015 PUERTO DESEADO
47.4S 62.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNO DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRIL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	POG MO PCPN	POG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.1	3.1	.0	.0	.0	.0	6.2	6.2	3.1	6.2	.0	.0	.0	77.5
NE	.0	.0	13.3	.0	.0	.0	.0	13.3	.0	.0	8.9	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	40.0	.0	.0	.0	.0	.0	60.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	6.7	.0	82.6
S	24.3	.0	.0	.0	.0	.0	.0	24.3	.0	2.0	.0	.0	.0	.0	73.3
SW	3.8	2.9	3.8	.0	.0	.0	.0	14.3	.0	1.4	13.0	.0	.0	.0	71.0
W	.0	2.9	.0	.0	.0	.0	.0	2.9	.0	.0	21.7	.0	.0	.0	73.4
NW	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	3.8	3.1	.0	2.6	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.6	1.7	2.3	.0	.0	.0	.0	8.6	1.7	1.7	9.2	.0	1.1	.0	77.6
TOT OBS:	174														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	POG MO PCPN	POG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	6.3	4.2	6.3	.0	.0	.0	.0	16.7	.0	2.1	10.4	.0	2.1	.0	86.8
0600Z	2.4	.0	.0	.0	.0	.0	.0	2.4	4.9	4.9	7.3	.0	.0	.0	80.3
1201Z	3.8	1.9	.0	.0	.0	.0	.0	3.8	1.9	1.9	9.6	.0	1.9	.0	78.8
1802Z	3.4	.0	2.7	.0	.0	.0	.0	8.1	.0	.0	8.1	.0	.0	.0	83.8
TOT PCT TOT OBS.	4.3	1.7	2.2	.0	.0	.0	.0	8.4	1.7	2.2	9.0	.0	1.1	.0	77.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.8	3.4	4.4	2.7	.4	.0		12.3	16.3	12.7	12.0	4.2	14.1	12.6	11.9	3.6	13.3	
NE	.6	2.0	2.6	.7	.0	.0		3.8	12.3	7.2	8.0	10.8	4.7	4.9	3.4	3.6	4.9	
E	.2	1.6	1.0	.6	.0	.0		3.4	11.9	4.5	3.3	3.3	3.4	2.7	3.4	.0	3.2	
SE	.4	1.7	1.7	.7	.0	.0		4.6	13.2	4.5	5.9	3.0	6.3	3.8	3.4	3.4	2.1	
S	.9	3.2	2.9	1.8	1.7	.5		10.6	20.0	11.3	11.2	20.0	9.6	11.3	8.1	19.2	11.4	
SW	.7	3.0	4.9	3.7	2.4	1.9		18.3	22.2	18.7	19.8	18.3	15.6	17.6	18.3	21.4	20.6	
W	.9	3.9	10.2	3.4	1.3	.7		24.3	17.9	22.9	23.0	16.7	24.7	22.1	29.3	18.8	23.3	
NW	.4	4.6	8.7	3.8	1.4	.2		19.1	17.3	17.8	13.0	21.7	19.0	21.4	19.0	32.1	19.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2							1.2	.0	.8	1.6	.0	2.6	1.3	.9	.0	1.1	
TOT OBS	80	300	322	276	109	47	1424		17.7		222	187	30	182	224	332	28	189
TOT PCT	9.6	27.4	36.7	19.4	7.7	3.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.0	4.7	3.8	1.6	.2		12.3	16.3	12.4	12.7	12.7	12.2		
NE	1.9	2.4	1.8	.2	.0		3.8	2.5	2.6	3.2				
E	1.2	1.1	.9	.1	.0		3.4	11.9	4.0	3.4	3.1	2.5		
SE	1.1	1.8	1.6	.1	.0		4.6	13.2	3.1	6.1	6.3	2.8		
S	1.6	3.4	2.7	1.7	1.2		10.6	20.0	11.2	11.0	9.4	11.9		
SW	2.8	5.2	4.6	3.1	2.8		18.3	22.2	19.2	16.0	18.1	20.7		
W	3.0	8.5	9.2	2.8	1.1		24.3	17.9	22.9	23.6	26.6	22.9		
NW	2.1	7.7	6.7	2.1	.6		19.1	17.3	16.3	19.4	20.0	21.4		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.2						1.2	.0	1.0	2.3	1.0	.9		
TOT OBS	233	492	445	167	83	1424		17.7	409	222	376	217		
TOT PCT	16.3	34.6	31.2	11.7	6.0		100.0		100.0	100.0	100.0	100.0		

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972AREA 0015 PUERTO RISEADO
47.45 62.84

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	1.0	4.2	29.3	36.4	18.6	7.3	3.2	17.5	100.0	409
0600Z	2.3	3.0	29.3	34.2	19.4	6.8	3.2	17.0	100.0	222
1200Z	1.0	4.9	24.7	37.7	20.0	8.3	3.5	18.0	100.0	576
1800Z	.9	3.2	29.0	36.9	19.4	7.4	3.2	17.8	100.0	217
TOT	17	62	390	522	276	109	47	17.7		1424
PCT	1.2	4.4	27.4	36.7	19.4	7.7	3.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBS	MEAN CLOUD COVER
N	1.4	1.1	2.5	1.6		9.6
NE	1.8	.2	.5	2.1		4.9
E	.0	.0	.0	.9		8.0
SE	.9	.0	6.9	.0		6.1
S	1.6	1.1	6.2	8.9		6.6
SW	3.9	2.3	8.5	6.0		5.3
W	4.4	9.9	3.4	3.7		4.9
NW	3.4	4.8	14.7	2.1		5.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	19	19	46	29	109	5.9
TOT PCT	17.4	19.8	42.2	26.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 799	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	TOTAL OBS
N	.0	.5	.7	.0	.0	.7	1.8	.0	.0	.0	3.0
NE	.0	.5	.2	.0	.0	.0	1.8	.0	.0	.0	2.1
E	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.9	.0	.0	2.3	.0	.0	.0	4.6
S	.0	.0	.0	6.4	2.3	.9	3.7	.0	.0	.0	12.8
SW	.0	.0	.0	1.8	4.1	.9	2.5	.0	.9	.0	10.6
W	.0	.0	.7	.0	1.4	.9	.7	.9	.0	.0	5.6
NW	.0	.0	1.1	.0	.2	2.1	2.8	.9	.0	.0	7.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	1	0	0	0	0	17	2	1	0	109
TOT PCT	.0	.9	2.8	10.1	8.3	5.5	15.6	1.8	.9	.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>90YD	>0
> OR ≥ 3000	.9	.9	.9	.9	.9	.9	.9	.9
> OR ≥ 2500	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
> OR ≥ 2000	9.0	19.9	19.9	19.9	19.9	19.9	19.9	19.9
> OR ≥ 1500	12.6	22.5	23.2	23.2	23.2	23.2	23.2	23.2
> OR ≥ 1000	18.9	29.7	33.3	33.3	33.3	33.3	33.3	33.3
> OR ≥ 800	22.5	39.6	43.2	43.2	43.2	43.2	43.2	43.2
> OR ≥ 600	23.2	42.3	45.9	45.9	45.9	45.9	45.9	45.9
> OR ≥ 400	23.2	42.3	46.8	46.8	46.8	46.8	46.8	46.8
> OR ≥ 200	23.2	42.3	46.8	46.8	46.8	46.8	46.8	46.8
TOTAL	28	47	52	52	52	52	52	52

TOTAL NUMBER OF OBS: 111

PCT FREQ NM <5/8: 53.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
12.4	9.7	12.4	8.0	11.5	6.2	8.8	19.3	17.7	.0	113

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972

MAY

TABLE 8

AREA 0015 PUERTO DESEADO
47.45 62.8W

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	1.1
	TOT %	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	1.1
2<5	PCP	.3	.3	.0	.0	.6	.6	.0	.0	.0	.0	.0	1.7
	NO PCP	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	1.7
	TOT %	.9	.3	.0	.6	.6	.6	.6	.0	.0	.0	.0	3.4
5<10	PCP	.3	.6	.0	.0	2.9	1.1	.6	.3	.0	.0	.0	5.7
	NO PCP	1.9	1.6	.6	3.4	3.4	9.3	8.9	4.6	.0	.0	.0	33.9
	TOT %	2.2	2.2	.6	3.4	6.3	10.5	9.1	4.9	.0	.0	.0	39.1
10+	PCP	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1
	NO PCP	6.3	3.4	.9	2.0	7.2	7.6	10.2	17.0	.0	.0	.0	54.6
	TOT %	6.3	3.4	.9	2.0	7.2	8.8	10.2	17.0	.0	.0	.0	55.7
TOT OBS													174
TOT PCT													9.3 6.5 1.4 6.6 14.1 19.8 19.8 22.4 .0 .0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	1.2	
	11-21	.4	.4	.4	.8	.0	.0	.0	.0	.0	.0	2.0	
	22+	.4	.4	.4	1.2	.0	.4	.0	.0	.0	.0	2.4	
	TOT %	.8	.4	.8	2.0	.4	.8	.4	.0	.0	.0	5.7	
5<10	0-3	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	4-10	.4	1.6	1.4	1.2	1.2	3.2	2.9	1.6	.0	.0	15.8	
	11-21	1.3	.3	.8	.6	.6	1.8	1.4	1.2	.0	.0	8.1	
	22+	.2	.0	.0	.8	.8	2.6	1.0	2.0	.6	.0	7.3	
	TOT %	1.9	2.1	2.2	2.6	4.9	8.0	6.4	3.4	.0	.0	11.6	
10+	0-3	.4	.2	.2	.4	.8	.4	.8	.0	.0	.4	3.6	
	4-10	1.6	1.4	2.0	2.6	3.2	1.8	3.7	2.9	.0	.0	19.4	
	11-21	2.4	1.6	.4	.0	4.0	7.0	2.2	5.8	.0	.0	23.3	
	22+	.8	.0	.0	.0	2.4	3.3	1.8	1.2	.0	.0	13.8	
	TOT %	5.3	3.2	2.6	3.0	10.5	14.7	8.6	11.9	.0	.4	60.3	
TOT OBS													247
TOT PCT													9.2 6.2 5.7 8.1 15.8 23.5 15.4 15.8 .0 .4 100.0

MAY

PERIOD: (PRIMARY) 1903-1972
(OVER-ALL) 1869-1972AREA 0015, PUERTO RISEADO
47.45 62.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 3199	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	3.6	.0	10.7	7.1	7.1	21.4	.0	.3	.0	50.0	50.0	28
0600	.0	.0	3.4	6.9	6.9	.0	17.2	3.4	0	.0	37.9	62.1	29
1200	.0	.0	6.9	6.9	10.3	13.8	10.3	.0	3.4	.0	51.7	48.3	29
1800	.0	.0	.0	14.8	7.4	.0	18.5	3.7	.0	.0	44.4	55.6	27
TOT PCT	0 .0	1 .9	3 2.7	11 9.7	9 8.0	6 5.3	19 16.8	2 1.8	1 .9	0 .0	52 46.0	61 54.0	113 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2 149	1/2-1 299	1-2 399	2-5 499	5-10 599	10+ 699	TOTAL OBS
0000	.0	.0	1.4	11.1	29.2	58.6	72
0600	.0	.0	.0	3.8	30.2	66.0	99
1200	1.5	.0	1.5	3.8	35.9	57.7	78
1800	2.1	.0	.0	2.1	31.3	64.6	48
TOT	4	0	2	14	80	191	291
PCT	1.6	.0	.8	5.6	31.9	60.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 149	<600 299	<1000 399	<1000+ 499	NM <5/8 AND 5+	TOTAL OBS
0000	.0	3.7	25.9	29.6	44.4	27
0600	.0	3.4	10.3	27.6	62.1	29
1200	.0	6.9	17.2	34.5	48.3	29
1800	.0	.0	19.2	26.9	55.6	26
TOT	0	4	20	33	58	111
PCT	.0	3.6	18.0	29.7	52.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
59/59	.0	.0	.0	.0	.7	2.0	.0	.0	4	2.7
50/54	.0	.0	.0	.0	.7	10.1	8.1	4.1	34	23.0
49/49	.0	.0	.0	.7	4.1	19.6	18.2	14.9	89	57.4
40/44	.0	.0	.0	.7	2.0	2.7	6.8	4.7	29	16.9
TOTAL	0	0	0	2	11	31	49	35	148	100.0
PCT	.0	.0	.0	1.4	7.4	24.3	33.1	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0
3.7	1.9	.7	.0	.7	3.8	3.7	8.8	.0	.0
4.7	4.1	.7	3.4	11.3	11.3	10.1	11.8	.0	.0
.8	1.0	.3	4.4	2.3	2.7	3.9	1.2	.0	.0
9.3	6.9	1.7	7.8	14.5	17.6	17.7	24.5	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	60	55	53	47	42	39	38	46.3	401
0600	57	55	52	46	41	37	36	46.4	221
1200	62	57	53	47	42	40	37	47.3	535
1800	59	57	53	47	42	40	39	47.7	211
TOT	62	56	53	47	42	39	36	47.1	1388

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	10.0	40.0	17.3	32.3	82	40		
0600	.0	.0	8.8	38.2	35.3	17.6	81	34		
1200	.0	2.2	10.9	30.4	32.6	23.9	81	46		
1800	.0	3.1	5.1	25.0	30.0	18.8	83	32		
TOT	0	2	13	51	50	36	82	192		

PERIOD: (PRIMARY) 1963-1972
(OVER-ALL) 1969-1972

MAY

AREA 0015 PUERTO DESEADO
47.48 62.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.6	1.1	1.1	3	.0	2.9
6	.0	.0	.0	.0	.6	.6	2	.0	1.1
5	.0	.0	.0	.6	2.9	2.3	10	.0	3.7
4	.0	.0	.0	.0	2.3	1.1	6	.0	3.4
3	.0	.0	.0	2.3	2.9	.6	10	.0	3.7
2	.0	.0	.6	4.6	3.7	.0	19	2.9	8.0
1	.0	.0	.6	3.7	4.0	.0	18	1.7	8.6
0	.0	.0	.0	10.9	2.3	.0	23	1.7	11.4
-1	.0	.0	1.7	4.6	.0	.6	12	1.1	5.7
-2	.0	.0	2.9	3.1	1.7	.0	17	.0	9.7
-3	.0	.6	4.6	3.7	.0	.0	19	1.7	9.1
-4	.0	.0	3.7	3.4	.0	.0	16	.0	9.1
-5	.0	.0	.6	.0	.0	.0	1	.0	.6
-6	.0	1.1	1.1	1.7	.6	.0	8	.0	4.6
-7/-8	.0	1.1	.6	1.1	.0	.0	3	.0	2.9
-9/-10	.6	1.1	.0	.6	.0	.0	4	.0	2.3
TOTAL	1	7	32	82	42	11	173	16	159
PCT	.6	4.0	18.3	46.9	24.0	6.3	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.9	.0	.0	.0	3.9	.0	.0	2.9	.0	.0	.0	2.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.7	2.3	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.2	4.7	.0	.0	9.9	.0	.0	2.9	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.7	.0	.0	.0	4.7	.0	.0	.0	2.3	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1972

MAY
TABLE 18 (CONT)

AREA 0015 PUERTO RISEADO
47.45 62.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	3.5	.0	.0	.0	3.5	.0
5-6	.0	4.7	7.9	.0	.0	.0	7.0	.0	.0	.0	2.3	4.7	.0	.0	7.0	.0
7	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	2.9	.0	.0	.0	.0	2.9	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	4.1	.0	.0	.0	10.5	.0	.0	2.9	5.8	9.3	.0	.0	18.0	.0

MGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	1.7	.0	.0	.0	4.1	.0	.0	.0	1.2	.0	.0	.0	1.2	.0	1.2
3-4	.0	6.4	1.7	.0	.0	.0	8.1	.0	.0	7.6	7.0	.0	.0	.0	14.6	.0	14.6
5-6	.0	2.3	.0	2.3	.0	.0	4.7	.0	.0	.0	2.9	.0	.0	.0	2.9	.0	2.9
7	.0	.0	4.1	.0	.0	.0	4.1	.0	.0	.0	5.2	4.7	.0	.0	9.9	.0	9.9
8-9	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.0	7.6	4.7	.0	.0	23.3	.0	.0	7.6	16.3	4.7	.0	.0	28.5	100.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	2.3	.0	.0	.0	2.3	
1-2	.0	2.3	11.6	.0	.0	.0	14.0	
3-4	.0	14.0	14.0	.0	.0	.0	27.9	
5-6	.0	7.0	9.3	9.3	.0	.0	25.6	
7	.0	4.7	9.7	7.0	.0	.0	20.4	
8-9	.0	.0	.0	2.3	.0	.0	2.3	
10-11	.0	.0	.0	2.3	.0	.0	2.3	
12	.0	.0	.0	2.3	.0	.0	2.3	
13-16	.0	.0	.0	2.3	.0	.0	2.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	27.9	48.5	25.6	.0	.0	100.0	43

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	.0	13.3	13.3	6.0	2.4	1.2	1.2	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	4
1-2	1.2	1.2	2.4	8.4	7.2	3.6	3.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
3-4	.0	.0	.0	2.4	1.2	1.2	4.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
5-6	.0	.0	.0	.0	1.2	1.2	2.4	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	11
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
14-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
16-17	1.2	1.2	4.8	2.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
TOTAL	2.4	13.3	20.5	19.3	13.3	7.2	12.0	1.2	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	6
PCT	2.4	15.7	20.5	19.3	13.3	7.2	12.0	1.2	8.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973APEA 0015 PUERTO DESEADO
47.4S 62.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	10.6	.0	5.3	.0	.0	.0	.0	15.9	.0	.0	6.6	.0	.0	.0	77.5
NE	.0	.0	.0	.0	25.0	.0	.0	25.0	6.3	.0	.0	.0	.0	.0	68.8
E	36.4	.0	.0	.0	.0	.0	.0	36.4	27.3	.0	.0	.0	.0	.0	36.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	4.0	6.0	.0	.0	.0	8.0	18.0	.0	.0	.0	.0	.0	.0	82.0
SW	2.0	2.0	1.0	.0	2.0	.0	.0	5.1	5.1	.0	.0	.0	.0	.0	89.8
W	7.6	.0	.0	.0	1.5	.0	3.1	10.7	6.9	.0	1.5	.0	.0	.0	80.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	15.1	.0	.0	.0	83.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.1	.6	1.9	.0	1.3	.0	1.3	9.3	3.2	.0	5.7	.0	.0	.0	81.6
TOT OBS:	158														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FGG NO PCPN	FGG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.8	.0	2.4	.0	2.4	.0	2.4	11.9	4.8	.0	11.9	.0	.0	.0	71.4
0600	3.4	.0	3.4	.0	.0	.0	3.4	10.3	3.4	.0	3.4	.0	.0	.0	82.8
1200	6.0	.0	2.0	.0	.0	.0	.0	8.0	4.0	.0	2.0	.0	.0	.0	86.0
1800	5.3	2.6	.0	.0	2.6	.0	.0	7.9	.0	.0	5.3	.0	.0	.0	86.8
TOT PCT TOT OBS:	9.0	.6	1.9	.0	1.3	.0	1.3	9.4	3.1	.0	5.7	.0	.0	.0	81.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WNO DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.1	3.7	4.8	1.9	.5	.0		11.6	14.9		12.2	9.8	15.8	10.9	13.8	11.9	14.4	10.2
NE	.2	2.0	1.4	.5	.2	.1		4.4	14.2		4.6	2.5	1.3	2.4	4.3	3.8	7.7	5.6
E	.8	1.7	1.0	1.0	.3	.0		4.7	14.4		5.4	5.3	3.8	4.8	3.1	4.4	3.8	5.9
SE	.9	2.7	2.0	1.1	.4	.0		6.7	14.3		9.8	6.8	5.3	6.7	7.2	7.9	.0	5.7
S	.6	3.1	2.6	1.3	.8	.1		8.6	16.1		8.8	6.0	19.7	7.5	9.0	10.2	2.9	9.1
SW	1.1	6.4	4.3	3.6	2.4	.6		20.3	17.6		20.4	22.3	17.1	22.4	20.7	17.1	20.2	21.6
W	1.2	9.4	4.2	5.4	2.1	.4		23.1	18.0		24.8	26.3	5.3	22.4	21.8	20.8	26.0	24.4
NW	.8	4.6	7.5	4.5	1.5	.1		19.0	17.3		16.2	20.3	31.6	21.6	18.8	19.2	25.0	16.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		1.8	.8	.0	1.2	1.4	2.8	.0	1.1
TOT OBS	138	346	618	391	152	24	1827		16.4		285	265	19	232	378	432	26	270
TOT PCT	7.6	29.8	33.8	19.2	8.3	1.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	1.8	5.7	2.8	1.2	.2		11.6	14.9	11.0	10.9	12.6	10.2		
NE	1.3	1.6	1.0	.2	.2		4.4	14.2	3.6	2.3	3.2	5.7		
E	1.6	1.3	1.1	.0	.1		4.7	14.4	5.4	4.7	3.9	5.7		
SE	1.3	2.6	1.8	.7	.1		6.7	14.3	6.3	6.8	7.6	5.2		
S	1.9	3.3	1.8	1.2	.4		8.6	18.1	7.5	8.4	9.7	8.5		
SW	3.7	6.0	4.5	2.8	1.3		20.3	17.6	21.3	22.0	18.5	21.5		
W	4.4	8.4	6.2	4.2	.9		23.1	18.0	25.3	21.6	21.2	24.6		
NW	2.4	7.0	5.9	3.3	.2		19.0	17.3	18.2	22.3	19.0	17.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.6						1.6	.0	1.3	1.1	2.3	1.0		
TOT OBS	351	692	459	264	61	1827		14.4	390	271	710	296		
TOT PCT	19.2	37.9	25.1	14.4	3.3		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1954-1973

JUNE

AREA 0015 PUERTO RISEADO
47.45 62.9M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.3	7.6	28.9	33.8	16.7	9.6	2.0	16.3	100.0	380
0600	1.1	7.4	20.3	34.3	17.7	8.9	.4	10.0	100.0	271
1200	2.3	9.4	29.6	33.2	21.1	7.2	1.3	10.4	100.0	710
1800	1.0	3.0	31.4	34.6	20.6	8.1	1.0	10.9	100.0	296
TOT	20	109	944	618	331	192	24	10.4		1827
PCT	1.6	8.0	29.8	32.0	19.2	8.3	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	7.9	1.4	9.1	7.6		4.7
NE	.0	1.1	2.5	.0		3.6
E	.0	.0	2.0	.0		6.1
SE	1.1	.0	.0	2.2		6.0
S	1.1	.0	4.2	1.1		3.4
SW	7.3	3.1	4.2	3.4		3.9
W	9.0	3.4	7.9	4.3		4.3
NW	2.8	7.9	4.3	3.7		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		.0
TOT OBS	27	18	27	20	89	4.6
TOT PCT	30.3	16.9	30.3	22.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 209	300 309	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	7000 8499	8500 9999	10000 ANY HGT	NM <5/8 TOTAL OBS
.0	.0	2.2	2.2	1.1	2.2	.6	.0	.0	.0	.0	1.1	12.4
.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	1.1
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.1
1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1
.0	.0	1.1	2.0	1.1	.0	.0	.0	.0	.0	.0	.0	2.2
.0	1.1	.8	.3	2.2	3.1	.0	.0	.0	.0	.0	.0	10.7
.0	.0	1.7	1.1	2.2	3.4	.0	1.1	.0	.0	.0	.0	19.2
.0	.0	.0	2.2	2.2	.3	.6	.0	.0	.0	.0	.0	13.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
1	1	9	7	12	8	1	1	0	1	0	1	89
1.1	1.1	3.6	7.9	13.3	9.0	1.1	1.1	.0	1.1	.0	1.1	58.4
												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>1500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>1000	10.0	12.2	12.2	12.2	12.2	12.2	12.2	12.2
>500	22.2	28.6	28.6	28.6	28.6	28.6	28.6	28.6
>400	28.9	33.3	33.3	33.3	33.3	33.3	33.3	33.3
>300	30.0	36.7	37.4	37.8	37.8	37.8	38.9	38.9
>150	31.1	37.8	38.9	38.9	38.9	38.9	40.0	40.0
>0	32.2	38.9	40.0	40.0	40.0	40.0	41.1	41.1
TOTAL	29	39	36	36	36	36	37	37

TOTAL NUMBER OF OBS: 90

PCT FREQ NM <5/8: 58.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
30.1	6.3	7.9	6.5	8.6	6.6	10.8	9.4	19.1	1.1	93

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1954-1973

JUNE

AREA 0015 PUERTO DESEADO
47.45 62.94

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	
	TOT %	.0	.0	.0	.0	.0	.3	.3	1.9	.0	.0	2.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.9	
5<10	PCP	7.1	.6	.6	.0	.3	.9	1.3	.0	.0	.0	6.9	
	NO PCP	9.1	.3	.0	.0	2.8	3.8	4.6	10.8	.0	.0	32.1	
	TOT %	12.3	.9	.6	.0	3.1	4.7	5.8	10.8	.0	.0	39.0	
10+	PCP	.6	.0	.0	.0	.5	.2	.6	.0	.0	.0	1.9	
	NO PCP	10.8	1.6	1.1	1.3	3.0	10.8	13.8	11.6	.0	.0	54.7	
	TOT %	11.3	1.6	1.1	1.3	3.5	11.0	14.3	11.6	.0	.0	56.6	
TOT OBS													139
TOT PCT		23.7	2.9	1.7	1.3	7.9	16.0	20.6	29.0	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.0	.0	.3	.3	1.3	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	.0	1.0	.0	.0	.3	.0	.0	1.3	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	2.6	.0	.8	.0	.0	.3	.3	1.3	.0	.0	5.2	
	11-21	3.9	.6	.3	.3	1.3	1.0	2.1	3.1	.0	.0	12.9	
	22+	3.6	.0	.0	.0	1.0	2.6	2.4	4.3	.0	.0	13.9	
	TOT %	10.1	.6	.8	.3	2.6	3.9	4.8	8.9	.0	.0	32.8	
10+	0-3	1.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	2.6	
	4-10	2.7	.1	.9	.0	.4	2.1	4.6	3.0	.0	.0	16.0	
	11-21	4.1	1.2	.0	1.3	1.7	7.7	6.2	3.9	.0	.0	28.4	
	22+	2.6	.0	.0	.0	1.3	4.9	3.3	2.7	.0	.0	17.0	
	TOT %	10.4	1.3	.9	1.3	4.1	15.2	16.2	13.7	.0	.0	63.9	
TOT OBS													194
TOT PCT		20.5	2.1	1.7	1.8	7.7	19.3	21.3	24.6	.0	1.0	100.0	

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973AREA 0015 PUERTO DESEADO
47.43 -2.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 2499	3000 3499	4000 4999	5000 5999	6000 6999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	11.8	5.9	5.9	.0	.0	.0	.0	.0	.0	29.4	70.6	17
06009	5.0	.0	.0	13.0	20.0	5.0	.0	.0	.0	.0	.0	43.0	55.0	20
12015	.0	3.7	3.7	3.7	11.1	18.3	3.7	.0	.0	.0	.0	44.4	55.6	27
18021	.0	.0	7.1	7.1	14.3	3.6	.0	3.6	.0	3.6	.0	39.3	60.7	28
TOT	1	1	3	7	12	8	1	1	0	1	1	37	55	92
PCT	1.1	1.1	3.4	7.6	13.0	8.7	1.1	1.1	.0	1.1	1.1	40.2	59.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	3.6	.0	.0	1.8	40.0	54.5	99
06009	.0	.0	.0	.0	30.3	69.7	99
12015	.0	.0	.0	3.2	32.3	64.5	82
18021	4.4	.0	.0	.0	24.4	71.1	69
TOT	4	0	0	3	63	125	193
PCT	2.1	.0	.0	1.5	32.3	64.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	11.8	17.6	11.8	70.6	17
06009	5.3	5.3	21.1	26.3	92.6	19
12015	.0	7.4	11.1	33.3	55.6	27
18021	.0	7.4	14.8	25.9	59.3	27
TOT	1	7	14	23	93	90
PCT	1.1	7.8	15.6	25.6	58.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/94	.0	.0	.0	.0	1.3	4.4	5.2	.0	13	11.1
43/49	.0	.0	.0	.0	3.7	12.8	17.8	11.9	63	48.1
40/44	.0	.0	.0	2.2	6.7	7.4	8.9	9.1	43	33.3
39/39	.0	.0	.0	.0	.0	1.5	1.5	4.4	10	7.4
TOTAL	0	0	0	3	16	38	45	33	139	100.0
PCT	.0	.0	.0	2	11.6	27.1	33.3	24.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/94	.0	.7	.0	.7	.7	.9	3.3	2.9	.0	.0
43/49	10.3	.2	.7	1.5	1.3	4.4	8.0	19.0	.0	.7
40/44	7.4	1.3	1.3	.0	5.0	8.1	4.8	6.7	.0	.7
39/39	.4	.7	.0	.0	2.2	1.9	.4	1.9	.0	.0
TOTAL	24.6	3.0	2.0	2.2	9.3	13.3	16.7	27.4	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	56	51	50	47	38	33	33	44.3	344
06009	54	52	50	44	38	36	34	44.2	271
12015	57	53	51	45	39	36	34	44.8	692
18021	54	53	51	45	39	36	33	45.0	291
TOT	57	53	50	45	39	36	33	44.6	1798

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.9	8.6	22.9	31.4	34.3	83	35
06009	.0	4.0	4.0	32.0	44.0	16.0	81	25
12015	.0	2.4	9.2	31.7	34.1	22.0	81	41
18021	.0	.0	22.9	28.6	25.7	22.9	80	35
TOT	0	3	16	39	45	33	82	136

JUNE

PERIOD: (PRIMARY) 1904-1973
(OVER-ALL) 1854-1973

TABLE 17

AREA 0015 PUERTO DESEADO
47.45 62.9W

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	45 48	49 52	53 56	TOT	% FOG	WD FOG
6	.0	.0	.0	.0	.7	1.4	3	.0	2.1
5	.0	.0	.0	.7	.7	.0	2	.0	1.4
4	.0	.0	.0	2.1	2.1	.0	7	.0	4.9
3	.0	.0	.0	2.1	6.3	.0	12	.7	7.6
2	.0	.0	.0	9.0	.7	.0	14	.0	9.7
1	.0	.0	.0	7.6	2.8	.0	15	.7	9.7
0	.0	.0	6.9	7.6	2.8	.0	23	2.1	15.3
-1	.0	.7	4.9	9.5	.7	.0	14	.0	9.7
-2	.0	.0	7.6	2.8	.0	.0	15	.0	10.4
-3	.0	2.1	6.9	.7	.0	.0	14	.7	9.0
-4	.0	.0	4.2	.7	.0	.0	7	.0	4.9
-5	.0	1.4	2.1	.0	.0	.0	3	.0	3.5
-6	.0	2.1	.0	.0	.0	.0	3	.0	2.1
-7/-1	.0	3.5	.7	.0	.0	.0	6	.0	4.2
-9/-10	.7	.0	.0	.0	.0	.0	1	.0	.7
-11/-13	.7	.0	.0	.0	.0	.0	1	.0	.7
TOTAL	2		48		24		144	4.2	95.8
PCT	1.4	9.7	33.3	27.5	16.7	1.4	100.0		

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	4.9	.0	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.3	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.4	2.4	2.4	.0	.0	7.3	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.9	6.7	4.7	7.3	.0	.0	25.4	.0	.0	2.4	.0	.0	.0	2.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0013 PUERTO RISEADO
47.42 62.9W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	2.4	.0	.0	.0	.0	.0		2.4	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
3-4	.0	.0	2.4	.0	.0	.0		2.4	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	1.8	.0	.0	.0		1.8	.0	.0	5.3	1.2	.0	.0		6.7
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	4.9	2.4	.0	.0		7.3
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.4	.0	4.3	.0	.0	.0		6.7	.0	.0	11.0	4.3	.0	.0		19.9

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	4.3	.0	.0	.0	.0		4.3	.0	.0	.0	.0	.0	.0		.0	.0
1-2	.0	2.4	.0	.0	.0	.0		2.4	.0	2.4	.0	.0	.0	.0		2.4	.0
3-4	.0	.0	4.3	.0	.0	.0		4.3	.0	.0	.0	.0	.0	.0		4.3	.0
5-6	.0	.0	2.4	3.7	.0	.0		6.1	.0	.0	2.4	.0	.0	.0		2.4	.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	4.9	.0	.0	.0		4.9	.0
8-9	.0	.0	2.4	1.8	.0	.0		4.3	.0	.0	.0	.0	.0	.0		.0	.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
13-16	.0	.0	.0	4.3	4.3	.0		8.6	.0	.0	.0	.0	.0	.0		8.6	.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	.0
TOT PCT	.0	6.7	11.6	9.8	4.3	.0		32.3	.0	3.0	7.9	.0	.0	.0		12.2	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.9	4.9	.0	.0	.0	.0	9.8	
1-2	4.9	4.9	2.4	.0	.0	.0	12.2	
3-4	.0	4.9	14.6	.0	.0	.0	19.5	
5-6	.0	2.4	17.1	7.3	.0	.0	26.8	
7	.0	.0	9.8	4.9	.0	.0	14.6	
8-9	.0	.0	2.4	2.4	.0	.0	4.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	2.4	.0	.0	2.4	
13-16	.0	.0	.0	4.9	.0	.0	4.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.8	17.1	46.3	22.0	4.9	.0	100.0	41

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	3.9	3.9	9.1	5.2	3.2	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
1-2	.0	.0	6.5	9.1	3.2	2.6	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
3-4	.0	.0	2.6	3.9	2.6	1.3	3.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
5-6	.0	.0	1.3	.0	.0	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
7-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
15-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	2.6	3.9	2.6	2.6	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
TOT PCT	3.9	6.5	26.0	20.8	15.6	10.4	3.9	5.2	5.2	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

JULY

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1954-1973AREA 0013 PUERTO RISEADO
47.35 62.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
N	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	.0	7.3	.0	.0	.0	88.3
NE	4.4	8.9	9.9	.0	.0	.0	.0	22.2	.0	.0	4.4	.0	.0	.0	79.3
E	.0	.0	11.1	.0	.0	.0	.0	11.1	16.7	.0	.0	.0	.0	.0	72.2
SE	.0	.0	14.3	.0	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	.0	76.6
S	.0	8.9	29.8	.0	12.8	.0	.0	42.6	14.9	.0	.0	.0	.0	.0	42.6
SW	.0	5.2	13.0	.0	7.8	.0	.0	20.8	1.3	.0	.0	.0	.0	.0	77.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	.0	.0	92.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.9	.0	.0	.0	76.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
TOT PCT TOT OBS:	1.4 143	2.1	9.6	.0	2.1	.0	.0	9.8	2.1	.0	9.8	.0	.0	.0	78.3

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRIG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG MEA
0000	.0	.0	8.8	.0	2.9	.0	.0	11.8	2.9	.0	14.7	.0	.0	.0	70.6
0600	.0	2.4	4.8	.0	.0	.0	.0	7.1	2.4	.0	4.8	.0	.0	.0	89.7
1200	2.4	2.4	4.9	.0	2.4	.0	.0	9.8	.0	.0	12.2	.0	.0	.0	78.0
1800	3.7	3.7	3.7	.0	3.7	.0	.0	11.1	3.7	.0	11.1	.0	.0	.0	74.1
TOT PCT TOT OBS	1.4 144	2.1	9.6	.0	2.1	.0	.0	9.7	2.1	.0	10.4	.0	.0	.0	77.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.3	2.3	3.9	2.9	.6	.1		10.2	17.9		4.1	7.9	22.1	9.2	10.3	11.9	24.0	9.4
NE	.4	1.9	2.3	.7	.2	.0		5.4	13.8		4.0	5.2	3.7	8.6	8.3	4.6	3.2	6.1
E	.3	1.2	1.3	.4	.1	.0		3.3	12.4		3.3	3.3	3.7	4.3	4.3	3.1	3.1	2.3
SE	.8	1.1	1.1	.7	.5	.2		4.6	13.9		4.6	4.9	4.4	4.7	4.4	4.3	3.1	3.0
S	1.0	2.3	2.1	1.9	1.7	.5		9.5	20.7		10.3	9.1	10.3	7.7	8.2	10.7	3.2	10.2
SW	1.1	3.4	6.7	3.4	4.2	1.7		22.7	22.2		22.7	19.8	12.3	22.6	24.8	21.9	13.3	27.4
W	1.0	6.9	9.1	8.2	2.8	.6		24.9	18.3		28.6	27.9	18.4	23.3	26.9	22.9	27.1	21.9
NW	.4	3.7	8.0	4.1	.7	.2		17.1	17.3		17.3	18.3	23.0	16.6	13.8	18.3	18.8	18.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		3.0	3.4	.0	2.8	.4	2.1	.0	1.1
TOT OBS	142	481	646	366	198	61	1874		18.3		266	288	34	283	270	483	24	282
TOT PCT	7.6	24.6	34.9	19.3	10.6	3.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	04 09	12 15	18 21	
N	1.3	3.4	3.9	1.3	.3		10.2	17.9	8.0	10.7	11.4	10.7	
NE	1.3	2.1	1.3	.4	.1		5.4	13.8	4.6	6.3	3.3	6.0	
E	1.1	1.3	.9	.2	.0		3.3	12.4	3.4	4.3	3.6	2.3	
SE	1.4	1.3	1.0	.7	.2		4.6	13.9	4.6	4.7	4.3	4.8	
S	2.0	2.4	2.1	1.8	1.2		9.5	20.7	9.8	8.0	9.8	9.8	
SW	2.8	7.0	9.3	4.0	3.4		22.7	22.2	21.3	21.9	22.9	26.2	
W	3.4	9.2	7.0	3.8	1.3		24.9	18.3	27.2	24.7	24.3	22.4	
NW	1.7	6.4	8.5	2.2	.3		17.1	17.3	17.8	17.6	16.7	16.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	3.2	2.3	1.3	1.0	
TOT OBS	318	620	531	272	132	1874		18.3	334	289	233	286	
TOT PCT	17.0	33.1	28.3	14.5	7.0		100.0		100.0	100.0	100.0	100.0	

AREA 0015 PUERTO DESEADO
47.55 62.94

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND 11-21	SPEED (KNOTS) 22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	3.2	6.2	21.7	35.2	18.9	10.1	4.7	18.7	100.0	994
06029	7.3	5.0	24.1	37.1	17.7	10.0	3.7	18.4	100.0	529
12615	1.5	9.0	25.8	34.4	20.1	10.9	2.3	18.1	100.0	755
18621	1.0	6.3	27.3	30.4	21.0	11.2	2.8	18.4	100.0	286
TOT	38	104	461	646	386	198	61	18.3		1874
PCT	2.0	5.4	24.6	34.5	19.5	10.6	3.3		100.0	

TABLE A

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 9/8$ BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL OBS	MEAN CLOUD COVER
N	4.5	.0	11.9	10.4		6.1
NE	.9	.0	4.7	.6		6.1
E	1.5	.0	1.8	.0		3.8
SE	1.5	.0	.6	.0		2.5
S	2.1	2.1	2.1	1.2		4.4
SW	2.7	1.5	5.1	1.2		4.6
W	13.1	3.3	2.4	4.9		3.1
NW	10.7	3.9	3.6	2.4		2.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.2		4.0
TOT OBS	31	9	24	12		4.3
TOT PCT	36.9	10.7	31.0	21.4	100.0	

COO	150	300	600	1500	2000	3500	5000	6500	8000+	NH	45/8	TOT-L
149	299	599	999	1999	3499	4999	6499	7999		ANY	NGT	DB
.0	.0	.0	.0	1.8	6.0	.0	.0	3.3	3.6	11.6		
.0	.0	.0	.0	.6	1.2	.0	2.4	.0	.0	1.3		
.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	1.3		
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.3		
.0	1.2	.0	.0	1.2	.9	.0	.0	.0	.0	.0		
.0	.0	.0	1.2	1.2	.3	.0	1.2	.0	.0	6.3		
.0	.0	.0	1.2	1.2	.0	1.2	.0	.0	.0	19.6		
.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	17.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1	1	0	3	3	8	1	3	3	3	34		
1.2	1.2	.0	6.0	6.0	9.5	1.2	3.6	3.6	3.6	64.2	100.0	84

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM 34/8) AND VSBY (NM)

[illegible]

PCT FREQ NH C5/61 64.3

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

7	1	2	3	4	5	6	7	8	OBSCD	TOTAL CBS
27.6	11.5	10.3	6.9	9.2	3.4	4.6	13.8	11.5	1.1	87

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1854-1973

JUL-

AREA 0015 PUERTO RISEADO
47.35 62.9W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.0	.0	.0	.0	.0	.0	.9	1.4	.0	1.4	4.2	
	TOT %	1.0	.0	.0	.0	.0	.0	.9	1.4	.0	1.4	4.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.0	1.7	.3	.3	3.5	2.1	.0	.0	.0	.0	.0	9.1
	NO PCP	3.4	1.4	.3	.9	1.5	3.4	3.8	5.2	.0	.0	24.9	
	TOT %	4.4	3.1	.6	1.2	5.1	5.5	3.8	5.2	.0	.0	34.0	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	14.9	4.7	2.3	1.2	3.1	5.2	14.9	13.8	.0	.0	61.1	
	TOT %	14.9	4.7	2.3	1.2	3.1	5.2	14.9	13.8	.0	.0	61.1	
TOT OBS													
TOT PCT		24.0	7.9	3.1	2.4	8.2	13.5	19.1	20.5	.0	1.4	100.0	143

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	
	4-10	.3	.0	.0	.0	.0	.0	.3	1.2	.0	.0	1.8	
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	.0	.0	.0	.0	.0	.3	1.8	.0	1.2	4.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
	TOT %	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.4	.3	.0	.0	.0	.0	.0	.3	.0	.0	1.2	
	22+	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.6	
	TOT %	.4	.3	.0	.0	.3	.3	.0	.3	.0	.0	1.8	
5<10	0-3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	4-10	.9	1.2	.3	.3	.9	1.3	1.8	.6	.0	.0	7.1	
	11-21	3.6	1.3	.4	.1	.9	1.2	.9	3.3	.0	.0	11.9	
	22+	1.2	.0	.0	.3	3.1	4.3	.6	.6	.0	.0	10.1	
	TOT %	5.7	2.7	.7	1.3	4.6	7.0	3.3	4.5	.0	.0	29.0	
10+	0-3	.0	.0	.0	.1	.4	.0	.3	.3	.0	.0	1.2	
	4-10	.9	1.2	1.7	.7	1.2	2.4	5.8	1.3	.0	.0	14.9	
	11-21	6.3	1.9	.1	1.3	2.2	2.8	8.3	9.8	.0	.0	33.9	
	22+	.4	.9	.0	.3	.9	.7	2.8	.4	.0	.0	12.5	
	TOT %	13.8	4.0	1.9	2.3	4.6	6.0	17.4	12.1	.0	.0	62.5	
TOT OBS													
TOT PCT		2.9	7.9	2.7	3.4	9.7	13.2	21.0	16.6	.0	1.2	100.0	168

JULY

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973AREA 0015 PUERTO RISEADO
47.35 62.9W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	200 599	300 999	400 1999	500 3499	600 4999	700 6499	800 7999	9000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.9	.0	5.9	5.9	.0	.0	.0	17.6	62.4	17
06009	.0	.0	.0	7.4	.0	7.4	.0	.0	3.7	.0	18.5	81.5	27
12015	4.2	4.2	.0	.0	12.5	12.5	.0	8.3	4.2	8.3	54.2	45.8	24
18021	.0	.0	.0	10.5	10.5	10.5	.0	3.3	3.3	3.3	47.4	52.6	19
TOT	1	1	0	3	3	8	1	3	3	3	30	57	87
PCT	1.1	1.1	.0	5.7	5.7	9.2	1.1	3.4	3.4	3.4	34.5	65.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-4	4-10	10+	TOTAL OBS
00003	4.8	2.4	.0	4.8	78.1	50.0	42
06009	2.1	2.1	.0	.0	27.7	68.1	47
12015	4.3	.0	.0	.0	31.9	63.8	47
18021	6.1	3.0	.0	3.0	21.2	66.7	33
TOT	7	3	0	3	91	105	169
PCT	4.1	1.8	.0	1.8	30.2	62.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <5700	<600 <1	<1000 <5	1000+ AND 3+	NM <5/8 AND 3+	TOTAL OBS
00003	.0	.0	6.3	12.5	81.3	16
06009	.0	.0	7.7	11.3	80.8	26
12015	4.3	8.7	8.7	47.8	43.8	23
18021	.0	.0	10.5	36.8	52.6	19
TOT	1	2	7	23	54	84
PCT	1.2	2.4	8.3	27.4	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	.0	2.8	2.8	.0	8	5.7
40/49	.0	.0	.0	2.8	2.1	3.2	17.0	11.3	32	36.9
40/44	.0	.0	.0	1.4	7.8	12.8	9.2	20.6	75	51.8
50/59	.0	.0	.0	.0	.7	.0	2.1	2.1	7	3.0
50/54	.0	.0	.0	.0	.0	.0	.0	.7	1	.7
TOTAL	0	0	0	4	19	27	44	49	141	100.0
PCT	.0	.0	.0	4.3	10.6	19.1	31.2	34.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	1.2	.4	.4	.0	.0	.0	1.4	2.3	.0	.0
40/49	11.3	.9	.9	2.2	1.2	.9	8.7	13.8	.0	.0
40/44	9.6	3.9	1.8	1.2	3.3	12.8	12.1	5.0	.0	.0
50/59	2.0	.0	.0	.0	.7	1.4	.0	.9	.0	.0
50/54	.0	.0	.0	.0	.0	.7	.0	.0	.3	.0
TOTAL	24.1	5.1	2.5	1.4	7.3	15.8	21.8	22.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	54	50	48	43	37	34	33	42.0	333
06009	52	50	48	43	38	34	33	42.9	297
12015	55	53	49	44	38	36	33	43.9	743
18021	56	51	48	44	38	36	33	43.6	284
TOT	56	52	49	43	38	33	33	43.5	1857

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.3	9.4	13.6	34.4	34.4	34.4	34.4	32	32
06009	.0	2.2	19.0	19.0	34.8	37.0	37.0	37.0	34	46
12015	.0	3.6	8.3	23.0	22.2	38.9	38.9	38.9	33	36
18021	.0	3.6	10.7	23.0	32.1	28.1	31	31	31	38
TOT	0	6	15	27	44	50	53	53	142	

JULY

PERIOD: (PRIMARY) 1905-1973
(OVER-ALL) 1854-1973

AREA 0015 PUERTO DESEADO
47.54 62.9W

TABLE 17

PCT PROB OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	33 36	37 40	41 44	43 48	49 52	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.7	.0	1	.0	.7
6	.0	.0	.0	1.4	.7	3	.0	2.1
5	.0	.0	.0	.0	1.4	2	.0	1.4
4	.0	.0	1.4	2.9	.7	7	.7	4.3
3	.0	.0	.0	5.7	1.4	10	.7	6.4
2	.0	.0	.0	11.4	1.4	18	3.4	9.3
1	.0	.0	.7	6.4	.0	10	.7	6.4
0	.0	.0	8.6	3.6	.0	17	2.1	10.0
-1	.0	.0	7.9	2.1	.0	14	.0	10.0
-2	.0	2.1	12.9	.0	.0	21	2.1	12.9
-3	.0	2.9	8.6	.0	.0	16	.7	10.7
-4	.7	.7	4.3	.7	.0	9	.0	6.4
-5	.0	.7	1.4	.7	.0	4	.0	2.9
-6	.7	1.4	.0	.7	.0	4	.0	2.9
-7/-8	.0	.7	.0	.0	.0	1	.0	.7
-9/-10	2.1	.0	.0	.0	.0	3	.0	2.1
TOTAL	9		64		8	140	13	123
PCT	3.6	12	49.7	36.4	5.7	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1905-1973

TABLE 18

PCT PROB OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	2.0	.0	.0	.0	.0	2.0	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.9	2.0	.0	.0	7.9	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.6	14.3	.0	.0	17.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.0	2.6	.0	.0	4.6	.0	.0	.0	.3	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	13.2	19.1	.0	.0	34.2	.0	1.3	1.3	.0	.0	.0	2.6

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	2.0	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.7
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	.0	.0	.0	.0	2.9	.7	.7	.0	.0	.0	.0	1.3

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0015 PUERTO DESEADO
47.35 62.9M

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.6	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	.0	2.6	2.6	.0	.0	7.2	.0	2.6	2.6	.7	.0	.0	5.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	2.6	7.2	.0	.0	.0	9.8	.0	.0	3.3	.0	.0	.0	3.3	
3-4	.0	.0	9.8	.0	.0	.0	9.8	.0	.0	7.9	.7	.0	.0	8.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	2.6	
7	.0	.0	.0	4.6	.0	.0	4.6	.0	.0	2.6	1.3	.0	.0	3.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	15.8	4.6	.0	.0	25.0	.0	.7	17.1	2.0	.0	.0	19.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.6	7.9	.0	.0	.0	.0	10.5	083
1-2	.0	5.3	19.8	.0	.0	.0	25.1	
3-4	.0	.0	26.3	5.3	.0	.0	31.6	
5-6	.0	2.6	2.6	.0	.0	.0	5.3	
7	.0	.0	5.3	21.1	.0	.0	26.3	
8-9	.0	.0	2.6	2.6	.0	.0	5.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.7	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	15.8	52.6	28.9	.0	.0	100.0	38

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.0	4.5	17.9	6.0	6.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
6-7	.0	.0	7.5	11.9	16.4	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	6
8-9	.0	.0	.0	1.5	3.0	1.5	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	10
10-11	.0	.0	.0	1.5	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
13-15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
15-17	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
TOTAL	4	3	18	16	17	4	2	0	3	0	0	0	0	0	0	0	0	0	0	67	5
PCT	6.0	4.5	26.9	23.9	25.4	6.0	3.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AUGUST

AREA 0013 PUERTO RSEADO
47.35 62.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEAT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	15.4	.0	.0	.0	.0	.0	.0	15.4	15.4	.0	15.4	.0	.0	.0	53.8
E	10.3	10.3	.0	.0	.0	.0	.0	20.3	.0	.0	7.7	.0	.0	.0	71.8
SE	14.8	.0	.0	.0	.0	.0	.0	14.8	14.8	.0	3.7	.0	.0	.0	66.7
S	.0	5.3	5.3	.0	2.7	.0	.0	13.3	5.3	.0	.0	5.3	.0	.0	76.0
SW	.0	.0	.0	.0	5.1	.0	.0	5.1	5.1	.0	3.4	.0	.0	.0	88.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	92.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0	.0	.0	94.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.1	1.4	.7	.0	1.4	.0	.0	5.6	2.8	.0	4.9	.7	.0	.0	86.1
TOT OBS	144														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	97.2	
0600	.0	.0	.0	.0	2.9	.0	.0	2.9	5.7	.0	5.7	.0	.0	.0	89.7	
1200	5.3	.0	2.6	.0	2.6	.0	.0	10.3	.0	.0	5.3	.0	.0	.0	86.2	
1800	2.6	5.3	.0	.0	.0	.0	.0	7.9	7.9	.0	7.9	2.6	.0	.0	78.9	
TOT PCT TOT OBS	2.0 147	1.4	.7	.0	1.4	.0	.0	5.4	2.7	.0	4.8	.7	.0	.0	86.4	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.5	2.4	4.4	2.2	.6	.1	10.3	16.8	11.0	13.0	9.8	10.4	9.7	9.3	12.1	8.7
NE	.3	1.9	2.0	1.3	.1	.0	5.4	14.8	5.5	5.7	4.3	5.3	3.9	6.6	.0	5.3
E	.4	1.3	1.6	1.1	.1	.0	4.5	14.8	4.6	3.1	4.3	4.9	4.8	4.1	6.0	6.1
SE	.3	1.6	1.7	1.0	.1	.0	4.8	14.7	3.3	4.3	4.3	3.9	3.6	3.6	1.7	5.8
S	.3	2.1	2.9	1.6	1.3	.8	9.1	21.7	9.7	9.0	8.7	9.1	10.1	8.6	12.9	8.3
SW	.5	4.6	6.6	9.6	3.2	.6	21.3	21.8	20.6	18.1	16.3	21.7	21.7	20.6	22.4	26.5
W	1.0	6.0	8.9	3.0	3.3	.6	24.8	19.6	24.4	26.4	16.3	22.1	24.4	26.9	23.3	23.5
NW	.7	3.0	8.0	4.7	1.7	.5	18.6	19.6	19.9	20.1	31.5	22.2	18.1	17.3	21.6	13.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	1.1	.4	4.3	.8	1.9	.8	.0	2.0
TOT OBS	99	414	634	409	189	53	1819	19.0	272	245	23	253	263	483	29	247
TOT PCT	5.4	22.8	34.1	22.4	10.4	2.9	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	18
N	1.8	4.1	3.2	1.3	.2	10.3	16.8	11.9	10.3	9.8	9.1
NE	.8	2.3	1.6	.8	.0	5.4	14.8	5.6	5.4	3.8	4.7
E	.8	2.0	1.4	.4	.0	4.5	14.8	3.9	4.9	4.3	6.1
SE	.9	1.7	1.6	.4	.0	4.8	14.7	3.8	4.0	3.6	5.4
S	1.4	2.4	2.7	1.3	1.3	9.1	21.7	9.3	9.1	9.1	8.8
SW	1.6	6.4	6.3	4.2	2.4	21.3	21.8	15.4	20.8	21.0	26.1
W	3.0	8.3	7.6	3.6	2.2	24.8	19.6	25.3	21.6	26.0	23.5
NW	1.8	5.8	7.1	3.1	.9	18.6	19.6	20.0	22.9	17.6	14.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2					1.2	.0	.8	1.1	1.2	1.8
TOT OBS	339	405	576	271	128	1819	19.0	317	278	748	276
TOT PCT	13.1	21.3	31.7	14.9	7.0	100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973AREA 0015 PUERTO RIESADO
47.93 62.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	.8	4.8	23.4	35.4	23.6	9.3	2.7	18.8	100.0	517
0600	1.1	7.9	21.6	38.1	16.2	10.8	4.3	18.4	100.0	278
1200	1.2	2.9	22.5	35.4	23.9	11.4	2.7	19.4	100.0	748
1800	1.8	3.3	23.6	37.0	22.3	9.4	2.5	18.8	100.0	278
TOT	21	78	414	656	408	189	53	19.0		1819
PCT	1.2	4.3	22.8	36.1	22.4	10.4	2.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.4	1.1	2.7	.8		3.0
NE	.0	.0	.5	2.2		7.7
E	.0	.0	2.7	2.2		7.2
SE	.0	.0	.0	1.1		8.0
S	3.2	.8	4.6	4.9		5.5
SW	9.9	6.2	7.5	.0		3.1
W	13.2	3.4	5.4	1.1		2.6
NW	7.0	3.9	4.6	1.3		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	1.1	.0	.0		3.0
TOT OBS	36	19	26	12	93	3.7
TOT PCT	36.7	20.4	28.0	12.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	399	999	1999	3499	4999	6499	7999		ANY	OBS
N	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	8.1	
NE	1.1	.0	.0	.0	1.1	.3	.0	.0	.0	.0	.3	
E	.0	.0	.0	1.1	1.1	1.9	.0	.0	.0	.0	.8	
SE	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	5.1	.3	3.2	.0	.0	.0	4.0	
SW	.0	.0	.0	1.1	1.3	1.6	1.1	.0	.0	.0	18.5	
W	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	21.6	
NW	.0	.0	.0	1.1	1.3	.0	.0	.0	.0	1.1	13.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	1	0	0	3	13	6	4	0	0	1	63	93
TOT PCT	1.1	.0	.0	3.2	14.0	6.3	4.3	.0	.0	1.1	69.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>3500	4.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>2000	9.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6
>1000	17.9	24.2	25.3	26.3	26.3	26.3	26.3	26.3
>600	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>400	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>150	18.9	27.4	28.4	29.3	29.3	29.3	29.3	29.3
>0	18.9	27.4	28.4	29.3	30.3	30.3	30.3	30.3
TOTAL	10	26	27	28	29	29	29	29

TOTAL NUMBER OF OBS: 93

PCT FREQ NM <5/8: 69.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
26.9	12.3	6.7	7.7	12.3	2.9	5.8	10.6	13.3	1.0	104

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973

AUGUST

AREA 0015 PUERTO RISEANO
47.33 62.8W

TABLE 8

PERCENT FREQ UP WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4	
	TOT S	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.4	
1/2<1	PCP	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	1.4	
	NO PCP	.0	.7	.0	.0	.0	.0	.3	.3	.0	.0	1.4	
	TOT S	.0	.7	.7	.7	.0	.0	.3	.3	.0	.0	2.8	
1<2	PCP	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	PCP	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
	TOT S	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.4	
5<10	PCP	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	1.4	
	NO PCP	.7	1.7	3.0	1.0	4.2	2.1	4.3	3.1	.0	.0	20.8	
	TOT S	.7	1.7	3.6	1.0	4.2	2.8	4.3	3.1	.0	.0	22.2	
10+	PCP	.0	.0	.0	.0	1.0	.3	.0	.0	.0	.0	1.4	
	NO PCP	8.9	1.4	2.4	2.4	7.1	14.5	17.0	14.1	.0	.7	70.1	
	TOT S	8.9	1.4	2.4	2.4	8.2	16.8	17.0	14.1	.0	.7	71.5	
TOT OBS													144
TOT PCT		9.2	4.3	6.8	4.7	13.0	20.3	22.4	18.2	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.0	.0	.0	.0	.0	.3	1.1	.0	.0	1.6	
	4-10	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
	11-21	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	1.3	.0	.0	.0	.0	.0	.6	1.1	.0	.0	3.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.3	
	4-10	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.6	.6	.3	.0	.0	.3	.3	.0	.0	2.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	1.1	
	TOT S	.0	.3	.0	.0	.0	.3	.3	.0	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.1	
	22+	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	1.1	
	TOT S	.3	.3	.3	.0	.3	.3	.0	.3	.0	.0	2.7	
5<10	0-3	.0	.3	.3	.0	.0	.0	.3	.0	.0	.0	1.1	
	4-10	.0	.3	1.2	.7	.3	1.1	.3	.3	.0	.0	4.8	
	11-21	.3	1.1	1.3	.8	1.3	1.3	2.9	1.9	.0	.0	11.2	
	22+	.0	.3	1.1	.0	1.3	2.1	1.9	.0	.0	.0	6.0	
	TOT S	1.3	2.4	3.6	1.3	3.2	4.3	5.6	2.7	.0	.0	25.0	
10+	0-3	1.1	.0	.0	.0	.3	.3	.3	.0	1.1	1.1	3.7	
	4-10	.3	.3	1.1	1.1	1.2	3.7	1.7	3.2	.0	.0	13.3	
	11-21	3.3	.3	1.1	.3	3.1	4.7	8.5	6.0	.0	.0	32.0	
	22+	1.7	1.1	.3	.0	1.7	6.3	2.8	1.1	.0	.0	15.4	
	TOT S	6.6	2.7	2.7	1.9	6.0	19.2	19.8	11.6	.0	1.1	65.4	
TOT OBS													188
TOT PCT		11.8	6.9	7.6	3.9	11.7	20.5	20.7	19.8	.0	1.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1903-1973
(OVER-ALL) 1869-1973AREA 0015 PUERTO DESEADO
47.35 62.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900+ 1000+	TOTAL OBS	NM <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	.0	11.1	.0	3.7	.0	.0	.0	14.8	85.2	27
06009	.0	.0	.0	4.8	14.3	.0	.0	.0	.0	4.8	23.8	76.2	21
12015	4.3	.0	.0	4.3	17.4	13.0	8.7	.0	.0	.0	47.8	52.2	23
18021	.0	.0	.0	3.7	14.8	11.1	3.7	.0	.0	.0	33.3	66.7	27
TOT	1	0	0	3	14	6	4	0	0	1	29	69	98
PCT	1.0	.0	.0	3.1	14.3	6.1	4.1	.0	.0	1.0	29.6	70.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2 1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	2.1	.0	.0	9.4	23.4	68.1
06009	2.3	2.3	2.3	.0	29.5	63.6
12015	5.7	3.8	1.9	.0	22.6	66.0
18021	2.1	4.3	.0	4.3	23.5	63.8
TOT	6	5	2	5	48	123
PCT	3.1	2.6	1.0	2.6	23.1	63.4

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	13.4	84.6	26
06009	.0	.0	4.8	19.0	76.2	21
12015	4.3	4.3	13.6	38.4	50.0	22
18021	.0	.0	7.7	26.9	65.4	26
TOT	1	1	6	23	66	95
PCT	1.1	1.1	6.8	24.2	69.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	2.5	.0	2.5	.0	6	3.1
48/46	.0	.0	.0	.0	1.7	13.6	6.8	5.1	32	27.1
40/44	.0	.0	.0	4.2	7.6	18.6	13.6	6.5	63	53.4
35/39	.0	.0	.0	.0	3.4	5.1	2.5	1.7	15	12.7
30/34	.0	.0	.0	.0	.0	.0	.0	.0	2	1.7
TOTAL	0	0	1	4	18	45	31	18	118	100.0
PCT	.0	.0	.8	4.2	15.3	38.1	26.3	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.5	.0	.0	.0	.0	.0	.6	3.0	.0	.0
6.1	1.1	.0	.0	.0	3.0	9.1	6.4	.0	.0
4.0	1.9	4.0	2.1	8.5	10.6	12.7	9.5	.0	.0
.0	.0	.0	2.2	5.1	3.4	1.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	.6	.2	.0	.0
11.7	3.0	5.3	2.3	14.4	17.8	24.8	19.9	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	53	50	48	43	37	34	31	42.8	512
06009	53	50	47	43	37	34	32	42.4	273
12015	55	51	49	44	38	34	33	43.3	736
18021	54	51	49	43	37	33	32	43.4	269
TOT	53	51	48	43	37	34	31	43.1	1790

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.1	21.9	28.1	34.4	12.5	78	32		
06009	.0	3.7	14.8	40.7	22.2	18.5	78	27		
12015	.0	6.5	4.5	31.6	19.4	16.1	78	31		
18021	.0	6.7	16.7	33.3	30.0	13.3	78	30		
TOT	0	6	18	46	32	18	78	120		

AUGUST

PERIOD: (PRIMARY) 1963-1973
(OVER-ALL) 1969-1973AREA 0015 PUERTO RISEADO
47.55 62.8W

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	43 48	49 52	53 56	TOT	% PCG	NO FOG
9/10	.0	.0	.0	.0	.7	.0	1	.0	.7
7/8	.0	.0	.0	.0	1.4	.0	2	.0	1.4
5	.0	.0	.0	1.4	.7	.0	3	.0	2.1
4	.0	.0	.0	2.1	.0	.0	3	.0	2.1
3	.0	.0	.0	8.4	.0	.0	9	.0	8.4
2	.0	.0	8.4	8.4	.7	.0	19	.0	19.6
1	.0	.0	9.8	9.7	.0	1.4	15	.0	10.7
0	.0	.0	8.6	2.1	.7	.0	18	2.1	9.3
-1	.0	1.4	9.3	1.4	.0	.0	17	.0	12.1
-2	.0	2.1	7.9	.0	.0	.0	14	.7	9.3
-3	.0	2.9	3.6	.0	.0	.0	9	.0	8.4
-4	.0	4.3	3.8	.0	.0	.0	11	1.4	8.4
-5	.7	2.9	1.4	.0	.0	.0	7	.0	5.0
-6	.0	2.1	1.4	.0	.0	.0	3	.7	2.9
-7/-8	.0	.7	.7	.0	.0	.0	2	.0	1.4
-9/-10	2.1	1.4	.0	.0	.0	.0	5	.0	3.6
-11/-13	.7	.7	.0	.0	.0	.0	2	.0	1.4
TOTAL	5	26	65	36	6	2	140	5.0	75.0
PCT	3.6	18.6	46.4	29.7	4.3	1.4	100.0	5.0	75.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.1	7.6	.0	.0	9.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.2	7.6	.0	.0	11.8	.0	1.4	.0	.0	.0	.0	1.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.2	.0	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.6	2.8	.0	.0	8.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	8.3	2.8	.0	.0	15.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

AUGUST
TABLE 18 (CON1)AREA 0015 PUEBLO DESEADO
47.34 62.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	.0	.0	.0	.0	2.1	.0	.7	.7	.0	.0	.0	1.4	.0
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.7	.0	.0	.0	.7	.0
5-6	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	3.6	.0
7	.0	.0	2.1	2.1	.0	.0	4.2	.0	.0	.7	6.3	.0	.0	6.9	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	13.2	2.1	.0	.0	17.4	.0	.7	2.1	12.5	.0	.0	19.3	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	2.1	.0	.0	.0	4.2	2.8	.7	2.8	.0	.0	.0	6.3	.0
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	2.8	6.9	.0	.0	.0	9.7	.0
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.7	.7	.0	.0	1.4	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.9	.0	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	14.6	4.9	.0	.0	21.5	2.8	3.5	10.4	.7	.0	.0	17.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
41	.0	.0	.0	.0	.0	.0	.0	083
1-2	2.8	11.1	3.6	.0	.0	.0	19.4	
3-4	.0	7.8	30.6	2.8	.0	.0	36.1	
5-6	.0	.0	13.9	13.9	.0	.0	27.8	
7	.0	.0	2.8	6.3	.0	.0	11.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.6	.0	.0	3.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	13.9	32.8	30.6	.0	.0	100.0	36

PERIOD: (OVER-ALL) 1960-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-10	61-70	71-86	87+	TOTAL	MEAN HGT
48	1.3	1.3	19.2	10.3	.0	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
4-7	.0	.0	7.7	3.1	9.0	1.3	3.8	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	6
8-9	.0	.0	.0	2.6	3.8	3.1	3.8	3.8	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.0	1.3	1.3	.0	.0	.0	.0	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>17	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	.0	1.3	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
TOTAL	1	2	22	17	10	7	8	9	4	2	0	0	0	0	0	0	0	0	0	78	6
PCT	1.3	2.6	26.2	21.0	12.8	9.0	10.3	6.4	8.1	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY, 1902-1972
(OVER-ALL) 1862-1972

AREA 0015 PUERTO RISEADO
47.85 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.4	.0	.0	.0	81.6
NE	.0	.0	14.8	.0	.0	.0	.0	14.8	3.7	.0	3.7	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	42.9	.0	.0	.0	.0	.0	57.1
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66.7	.0	.0	33.3
S	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	17.6	.0	.0	73.5
SW	.0	7.6	.0	.0	.0	.0	3.8	11.4	1.0	.0	.0	.0	.0	.0	87.6
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	95.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	4.1	.0	10.3	.0	.0	.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT OBS:	.0	1.7	.8	.0	.0	.0	.8	3.3	2.5	.0	7.3	1.7	.0	.0	85.0

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	11.3	7.7	.0	.0	76.9
0600	.0	3.4	3.4	.0	.0	.0	.0	6.9	.0	.0	6.9	.0	.0	.0	86.2
1200	.0	3.0	.0	.0	.0	.0	3.0	6.1	6.1	.0	2.0	.0	.0	.0	84.8
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	.0	.0	91.2
TOT PCT TOT OBS:	.0 122	1.6	.6	.0	.0	.0	.8	3.3	2.5	.0	7.4	1.6	.0	.0	85.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-9	10-19	20-29	30-39	40-49	50-59	60-69				00	06	12	18	21		
N	.7	4.0	4.3	3.2	.6	.0	.0	13.0	16.1	16.1	14.5	26.1	11.8	12.8	10.8	22.9	11.6
NE	.3	1.1	1.4	.7	.1	.0	.0	3.6	13.8	13.8	2.1	3.1	4.3	3.8	3.3	4.7	2.6
E	.6	1.6	1.1	.2	.0	.0	.0	3.5	9.6	9.6	3.1	2.8	.0	3.3	4.3	3.3	.0
SE	.7	1.7	1.1	.3	.1	.0	.0	4.3	13.3	13.3	4.6	3.4	4.3	4.0	3.2	4.0	.0
S	.7	2.2	2.6	1.1	.9	.4	.0	8.0	18.3	18.3	8.5	7.7	9.1	6.4	3.5	9.3	4.2
SW	.8	3.6	6.4	3.6	2.1	.7	.0	19.1	18.6	18.6	13.8	13.6	19.3	19.8	18.3	22.3	26.0
W	.9	7.9	9.0	4.1	1.2	.3	.0	23.4	18.8	18.8	22.5	23.6	19.3	23.3	23.6	18.8	22.2
NW	1.0	6.2	9.4	4.8	1.3	.2	.0	22.9	16.6	16.6	24.3	25.8	17.0	23.0	24.3	19.6	18.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	.0	2.6	1.3	.0	2.4	1.8	2.4	.0
TOT OBS	118	484	539	272	98	26	1503		16.0		217	193	22	210	217	424	24
TOT PCT	7.9	30.2	29.6	10.1	6.3	1.7	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21		
N	2.3	4.6	4.3	1.6	.2			13.0	16.1	16.1	15.4	13.1	11.5	12.8			
NE	.9	1.3	1.2	.2	.0			3.6	13.8	13.8	2.3	3.9	4.3	3.3			
E	1.3	1.3	.7	.0	.0			3.5	9.6	9.6	4.0	3.0	3.6	2.8			
SE	1.7	1.4	.6	.2	.2			4.3	13.3	13.3	3.0	4.1	4.4	3.2			
S	1.6	2.8	1.6	1.0	.9			8.0	18.3	18.3	8.1	6.7	8.0	6.9			
SW	2.8	6.7	5.3	2.8	1.3			19.1	18.6	18.6	14.7	19.7	21.0	21.0			
W	3.7	10.1	6.8	2.1	.8			23.4	18.8	18.8	23.0	24.9	23.7	21.8			
NW	2.8	9.3	7.7	2.1	.9			22.9	16.6	16.6	25.1	22.4	21.3	24.3			
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0			
CALM	2.1	.0	.0	.0	.0			2.1	.0	.0	2.2	2.2	2.2	1.8			
TOT OBS	291	968	429	150	63	1503			16.0		412	232	641	214			
TOT PCT	19.4	37.8	28.3	10.0	4.3						100.0	100.0	100.0	100.0			

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1862-1972

AREA 0015 PUERTO RISEADO
47.95 69.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	2.2	8.0	30.1	31.8	19.7	5.6	2.7	16.1	100.0	412
0600Z	2.2	4.7	35.3	32.3	18.5	6.0	.0	19.3	100.0	232
1200Z	2.2	4.5	28.4	38.4	17.8	7.0	1.7	16.4	100.0	641
1800Z	1.8	6.0	30.3	38.1	15.6	7.3	.9	19.7	100.0	218
TOT	92	86	454	533	272	98	28	16.0		1503
PCT	2.1	5.7	30.2	35.6	18.1	6.5	1.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL OBS	MEAN CLOUD COVER
N	9.2	.0	2.1	8.3		4.5
NE	2.4	1.2	.0	3.3		4.6
E	.0	.0	.0	.0		8.0
SE	1.2	.6	1.5	.0		3.3
S	.0	3.0	3.0	.0		5.0
SW	10.4	4.8	3.9	3.9		3.4
W	11.9	.0	1.2	3.0		2.5
NW	13.7	1.2	.3	6.8		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	1.2	.0		4.0
TOT OBS	42	9	11	22	84	3.7
TOT PCT	30.0	10.7	13.1	26.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	1.8	.0	.0	.0	1.2	.0	.0	.0	1.2	2.1	12.9	
NE	.3	1.2	1.5	.0	.0	.0	.0	.0	.0	.0	3.9	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
SE	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	3.0	
S	.0	.0	.0	.0	1.8	1.2	.0	.0	.0	.0	3.0	
SW	.0	.0	.0	.0	.3	.0	3.6	1.2	.0	.0	17.9	
W	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	1.0	
NW	.3	.0	.0	.3	3.6	.0	.0	.0	.0	1.3	16.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
TOT OBS	2	1	2	2	6	1	4	1	1	3	81	84
TOT PCT	2.4	1.2	2.4	2.4	7.1	1.2	4.8	1.2	1.2	3.6	72.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR>3000	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
>OR>3000	2.3	4.7	5.8	5.8	5.8	5.8	5.8	5.8
>OR>3000	7.0	9.3	10.3	10.3	10.3	10.3	10.3	10.3
>OR>2000	8.1	10.3	11.6	11.6	11.6	11.6	11.6	11.6
>OR>1000	13.1	17.4	18.6	18.6	18.6	18.6	18.6	18.6
>OR>600	18.6	20.9	22.1	22.1	22.1	22.1	22.1	22.1
>OR>300	20.9	23.3	24.4	24.4	24.4	24.4	24.4	24.4
>OR>150	20.9	24.4	25.6	25.6	25.6	25.6	25.6	25.6
>OR>0	20.9	24.4	25.6	25.6	25.6	26.7	27.9	27.9
TOTAL	18	21	22	22	22	23	24	24

TOTAL NUMBER OF OBS: 84

PCT FREQ NH <5/8: 72.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL OBS
	31.5	22.3	6.7	7.9	3.4	.0	7.9	5.6	12.4	2.2	89

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1962-1972

AREA 0015 PUERTO DESEADO
47.35 62.04

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.3	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
	TOT %	1.3	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.7	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.5	
	TOT %	1.7	.0	.0	.0	.0	.0	.0	.8	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	NO PCP	1.3	.0	.0	.0	.0	.0	.0	.2	.0	.0	1.7	
	TOT %	1.3	.0	.0	.0	.0	.8	.0	.2	.0	.0	2.5	
5<10	PCP	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	1.7	
	NO PCP	8.4	.8	.0	.4	2.5	2.7	4.0	2.9	.0	.0	21.8	
	TOT %	8.4	1.7	.0	.4	2.5	3.6	4.0	2.9	.0	.0	23.5	
10+	PCP	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8	
	NO PCP	11.1	3.8	.6	.2	4.6	16.8	15.9	16.2	.0	1.7	69.9	
	TOT %	11.1	3.8	.6	.2	4.6	17.6	15.9	16.2	.0	1.7	69.7	
TOT OBS													
TOT PCT													
		23.9	3.7	.6	.6	7.1	22.1	17.9	20.4	.0	1.7	100.0	119

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	4-10	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.1	.2	.0	.0	.0	.0	.0	.2	.0	.0	1.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	1.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	2.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.4	.0	.0	.0	.0	.0	.0	.7	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	2.1	
	11-21	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	22+	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	1.2	.0	.0	1.4	.0	.7	.0	.2	.0	.0	3.5	
5<10	0-3	1.4	.0	.7	.4	1.1	.4	.4	.0	.0	.0	4.3	
	4-10	1.4	.0	.0	.7	.7	.2	.9	.4	.0	.0	4.3	
	11-21	2.3	.0	.0	.0	.0	.0	1.1	.9	.0	.0	4.3	
	22+	2.0	1.4	.0	.0	1.1	2.5	1.1	1.2	.0	.0	9.2	
	TOT %	7.1	1.4	.7	1.1	2.8	3.0	3.4	2.5	.0	.0	22.0	
10+	0-3	.0	.0	.0	.0	.0	.0	.7	.7	.0	2.1	3.5	
	4-10	3.7	.0	.0	.2	2.0	3.0	7.6	9.4	.0	.0	25.6	
	11-21	2.8	1.1	.5	.0	2.3	3.9	3.0	3.9	.0	.0	23.4	
	22+	2.0	2.1	.0	.0	1.1	3.5	2.0	1.6	.0	.0	16.2	
	TOT %	10.5	3.2	.5	.2	5.3	10.3	13.2	17.6	.0	2.1	70.9	
TOT OBS													
TOT PCT													
		21.3	4.8	1.2	2.7	8.2	20.0	18.6	21.1	.0	2.1	100.0	141

SEPTEMBER

PERIOD: (PRIMARY) 1967-1972
(OVER-ALL) 1962-1972

AREA 0015 PUERTO RISEADO
47.55 93.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 149	100 249	200 599	300 1199	400 1999	500 2499	600 4999	700 6499	800 7999	900+ TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	9.1	.0	.0	.0	.0	9.1	90.9	11
06009	.0	.0	5.0	5.0	.0	5.0	5.0	5.0	.0	30.0	70.0	70
12015	2.4	3.4	.0	2.4	13.8	.0	3.4	.0	3.4	31.0	69.0	29
18021	3.6	.0	3.6	3.6	3.6	.0	7.1	.0	.0	28.6	71.4	28
TOT	2	1	2	3	8	1	4	1	1	24	64	88
PCT	2.3	1.1	2.3	3.4	9.1	1.1	4.5	1.1	1.1	27.3	72.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	.0	6.3	.0	3.1	34.4	56.3	2
06009	.0	3.0	.0	9.1	19.2	72.7	33
12015	2.4	.0	.0	.0	17.5	80.0	40
18021	2.4	.0	.0	2.0	21.1	73.7	38
TOT	2	3	0	3	31	102	145
PCT	1.4	2.1	.0	3.9	21.7	71.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <300YD	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00003	.0	.0	9.1	9.1	81.8	11
06009	.0	3.3	21.1	15.8	69.2	19
12015	3.6	7.1	10.7	21.4	67.9	28
18021	3.6	7.1	14.3	17.9	67.9	28
TOT	2	3	12	15	59	86
PCT	2.3	3.8	14.0	17.4	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
00/04	.0	.0	.0	.0	.0	.0	.0	.0	1	.9
06/09	.0	.0	.0	.0	.0	.0	.0	.0	1	.9
12/15	.0	.0	.0	.0	.0	.0	.0	.0	3	2.5
18/21	.0	.0	.0	4.7	5.9	17.0	16.0	6.6	53	50.0
24/24	.0	.0	.0	1.9	2.8	9.4	9.4	15.1	41	38.7
30/39	.0	.0	.0	.0	.0	1.9	2.8	.0	7	6.6
TOTAL	0	0	0	6	12	31	32	23	108	100.0
PCT	.0	.0	.0	7.5	11.3	29.2	30.2	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.5	3.6	.0	.5	1.4	4.7	8.3	12.0	.0	1.9
7.8	2.4	.7	.2	1.7	10.1	9.2	6.6	.0	.0
.0	.0	.0	.0	1.7	4.2	.7	.0	.0	.0
23.2	6.1	.7	2.6	3.7	20.0	18.2	19.6	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	57	53	49	44	38	36	33	43.8	411
06009	59	50	49	43	34	35	35	43.4	232
12015	60	55	52	45	39	36	34	45.3	629
18021	61	54	52	46	39	35	34	45.5	209
TOT	61	54	51	45	39	36	33	44.6	1481

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.7	8.7	20.1	13.0	43.5	83	23		23
06009	.0	11.1	7.4	22.2	40.7	18.5	80	27		27
12015	.0	3.7	7.4	37.0	37.0	14.8	79	27		27
18021	.0	6.5	19.4	32.3	29.0	12.9	78	31		31
TOT	0	8	12	32	33	23	80	108		

SEPTEMBER

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1862-1972

TABLE 17

AREA 0015 PUERTO DESEADO
47.93 63.04

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	33 36	37 40	41 44	43 46	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.8	1	.0	.8
9/10	.0	.0	.0	.8	.0	.0	.0	.0	.0	1	.0	.0
7/8	.0	.0	.0	.0	.8	.0	.0	.0	.0	1	.0	.8
6	.0	.0	.0	.0	.8	.0	.0	.0	.0	1	.0	.8
5	.0	.0	.8	3.3	.8	.0	.0	.0	.0	6	.0	5.0
4	.0	.0	.0	9.0	.0	.0	.0	.0	.0	9	.0	9.0
3	.0	.0	3.3	9.7	.8	.0	.0	.0	.0	13	.8	10.0
2	.0	.0	4.2	7.8	1.7	.0	.0	.0	.0	16	2.3	10.8
1	.0	.0	.8	9.0	3.3	.0	.0	.0	.0	11	.0	9.2
0	.0	.0	10.0	10.0	.0	.0	.0	.0	.0	24	7.8	17.5
-1	.0	.0	10.0	1.7	.0	.0	.0	.0	.0	10	.0	10.0
-2	.0	.0	6.7	.8	.0	.0	.0	.0	.0	9	.0	7.8
-3	.0	.0	1.7	.0	.0	.0	.0	.0	.0	7	.0	5.8
-4	.0	.0	1.7	.0	.0	.0	.0	.0	.0	4	.0	3.3
-5	.0	.0	1.7	.0	.0	.0	.0	.0	.0	2	.0	1.7
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
-7/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.8
TOTAL	1	11	45	91	10	1	0	1	120	100.0	4.7	93.3
PCT	.0	9.2	37.5	42.3	8.8	.8	.0	.8	100.0			

PERIOD: (OVER-ALL) 1903-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	1.8	3.3	3.3	1.8	.0	.0	11.8	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.8	1.8	.0	.0	2.4	.0	.0	.0	1.8	.0	.0	1.8
12	.0	.0	.0	.0	1.8	.0	1.8	.0	.0	.0	1.8	.0	.0	1.8
13-16	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	1.8	.0	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	1.8
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	1.8
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	3.3	7.8	4.4	1.8	.0	20.6	.0	.0	1.8	3.3	1.8	.0	8.8

MSL	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0015 PUERTO DESEADO
47.54 63.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
41	1.3	.0	.0	.0	.0	.0		1.3	.0	.0	.0	.0	.0	.0		.0
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
3-4	1.3	.0	1.8	.0	.0	.0		3.1	.0	3.5	1.8	.0	.0	.0		5.3
5-6	.0	.0	1.3	.0	.0	.0		1.3	.0	.0	.0	.0	.0	.0		3.5
7	.0	.0	.0	.0	.0	.0		.0	.0	2.2	3.5	.0	.0	.0		5.7
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	3.5	.0	.0		3.5
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.8	.4	.0	.0		2.2
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	2.6	.0	3.1	.0	.0	.0		3.7	.0	7.0	3.9	8.8	.4	.0		20.2

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
41	.0	.0	.0	.0	.0	.0		2.6	.0	2.6	.0	.0	.0	.0		2.6	
1-2	.0	.0	1.8	.0	.0	.0		1.8	.0	3.5	.0	.0	.0	.0		3.5	
3-4	.0	1.3	2.6	.0	.0	.0		3.9	.0	.4	4.4	.4	.0	.0		5.3	
5-6	.0	.0	1.8	.0	.0	.0		1.8	.0	3.5	3.9	1.8	.0	.0		9.2	
7	.0	.0	.0	3.5	.0	.0		3.5	.0	.0	3.5	.0	.0	.0		3.5	
8-9	.0	.0	.0	.0	1.3	.0		1.3	.0	.0	.4	1.8	.0	.0		2.2	
10-11	.0	1.3	.0	.0	.0	.0		1.3	.0	.4	.4	.4	.0	.0		1.3	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	3.3	6.1	3.5	1.3	.0		14.2	.0	10.3	12.7	4.4	.0	.0		27.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
41	1.7	6.9	.0	.0	.0	.0	8.6	
1-2	.0	6.9	5.2	.0	.0	.0	12.1	
3-4	3.4	10.3	12.1	1.7	.0	.0	27.4	
5-6	.0	3.4	10.4	5.2	.0	.0	19.0	
7	.0	.0	3.4	6.9	.0	.0	10.3	
8-9	.0	.0	1.7	3.4	1.7	.0	6.9	
10-11	.0	1.7	1.7	3.4	.0	.0	6.9	
12	.0	.0	.0	1.7	1.7	.0	3.4	
13-16	.0	.0	.0	3.4	.0	.0	3.4	
17-19	.0	.0	.0	.0	1.7	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	27.3	34.5	29.9	5.2	.0	100.0	33

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	41	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	1.1	3.3	12.1	7.7	5.3	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
6-7	.0	.0	2.2	6.6	.0	2.2	.0	1.1	5.5	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	19	9
8-9	.0	1.1	1.1	2.2	4.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
10-11	.0	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
12-13	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
15-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	7.7	1.1	3.3	2.2	3.3	1.1	6.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
TOTAL	8	5	17	19	12	8	6	4	8	3	1	0	0	0	0	0	0	0	0	91	6
PCT	8.8	5.5	18.7	20.9	13.2	8.8	6.6	4.4	8.8	3.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO RISEADO
47.35 63.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
N	5.7	1.4	.0	.0	.0	.0	.0	7.1	.0	.0	21.3	.0	.0	.0	71.6
NE	.0	.0	9.8	.0	.0	.0	.0	9.8	.0	.0	14.6	.0	2.4	.0	73.2
E	16.2	.0	.0	.0	.0	.0	.0	15.2	.0	.0	27.0	.0	8.1	.0	48.6
SE	13.3	.0	.0	.0	.0	.0	.0	11.3	.0	.0	13.3	.0	.0	.0	73.3
S	.0	26.4	.0	.0	.0	.0	.0	23.4	11.3	.0	.0	.0	.0	.0	62.3
SW	.0	1.9	3.8	.0	.0	.0	.0	5.8	9.6	.0	5.8	.0	.0	.0	78.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	.0	.0	.0	94.8
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	6.9	.0	.0	.0	91.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.9	3.6	1.4	.0	.0	.0	.0	7.9	2.9	.0	11.4	.0	.7	.0	77.1
TOT OBS	140														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG MEA
0000Z	.0	7.9	.0	.0	.0	.0	.0	7.9	7.9	.0	15.8	.0	2.6	.0	65.8
0600Z	7.1	3.6	7.1	.0	.0	.0	.0	17.9	.0	.0	7.1	.0	.0	.0	75.0
1200Z	2.4	.0	.0	.0	.0	.0	.0	2.4	2.4	.0	14.6	.0	2.4	.0	78.0
1800Z	2.9	2.9	.0	.0	.0	.0	.0	5.9	.0	.0	5.9	.0	.0	.0	88.2
TOT PCT TOT OBS	2.8 141	3.5	1.4	.0	.0	.0	.0	7.8	2.8	.0	11.3	.0	1.4	.0	76.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	4.0	6.0	3.5	.4	.0		14.5	19.9	17.5	15.0	19.4	15.6	15.2	10.8	18.5	15.4	
NE	.5	2.7	2.0	1.1	.1	.0		6.2	12.8	5.6	5.1	11.1	4.0	5.8	7.5	7.3	6.6	
E	.4	1.4	1.1	.6	.1	.0		3.7	12.3	5.1	5.8	.0	2.5	4.4	2.7	5.6	2.8	
SE	.6	2.4	1.4	.6	.2	.0		5.2	12.1	3.7	4.7	11.1	4.3	4.8	5.9	3.2	5.9	
S	1.1	3.1	2.8	1.2	1.1	.2		9.3	16.5	12.8	9.1	7.4	8.6	10.2	9.4	5.6	6.0	
SW	.9	4.7	6.2	3.1	2.0	.7		17.6	18.7	16.8	14.6	15.7	18.7	17.9	18.1	16.9	18.9	
W	.8	7.1	8.5	2.9	.8	.1		20.3	14.6	14.9	17.2	12.0	20.0	20.5	24.2	25.0	20.5	
NW	.9	7.0	8.4	4.6	1.1	.1		22.0	15.9	23.6	26.3	23.1	23.5	20.2	19.3	17.7	21.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2							1.2	.0	.0	2.2	.0	.7	1.2	2.1	.0	.0	
TOT OBS	79	367	412	197	66	12	1129		19.5	156	137	27	139	163	331	31	143	
TOT PCT	6.6	32.5	34.5	17.4	5.8	1.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)			
	0-3	7-16	17-27	28-40	41+						00	03	09	18
N	2.1	5.4	5.7	1.2	.1		14.5	19.9	16.3	16.3	12.2	15.9		
NE	2.0	2.4	1.4	.4	.0		6.2	12.8	5.4	5.1	6.9	6.6		
E	1.3	1.3	.9	.1	.0		3.7	12.3	5.3	2.1	3.3	3.3		
SE	1.6	2.5	.8	.3	.1		5.2	12.1	4.2	5.4	5.5	5.5		
S	2.2	3.1	2.3	1.4	.6		9.3	16.5	11.1	8.4	9.6	7.6		
SW	2.7	6.5	4.2	2.3	1.6		17.6	18.7	15.8	18.2	18.0	18.5		
W	2.9	9.9	5.6	1.6	.2		20.3	14.6	18.0	18.7	23.0	21.3		
NW	2.8	9.9	6.5	2.3	.5		22.0	15.9	24.8	25.2	19.6	21.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	1.2						1.2	.0	1.0	.6	1.8	.0		
TOT OBS	212	462	310	110	35	1129		19.5	293	166	496	174		
TOT PCT	18.8	40.9	27.5	9.7	3.1		100.0		100.0	100.0	100.0	100.0		

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1888-1973AREA 0013 PUERTO RISEADO
47.33 62.24

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	1.0	5.1	34.5	38.9	15.7	3.8	1.0	14.8	100.0	293
0600Z	.6	9.0	33.7	30.1	19.3	6.0	1.2	19.2	100.0	166
1200Z	1.8	4.2	31.5	36.9	16.9	7.5	1.2	16.0	100.0	496
1800Z	.0	6.3	31.0	37.4	20.1	4.6	.6	19.6	100.0	174
TOT	13	62	367	412	197	66	12	19.5		1129
PCT	1.2	5.5	32.5	36.5	17.4	5.8	1.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.2	1.6	12.2	4.7		5.1
NE	1.0	1.3	2.9	2.1		5.1
E	1.6	1.0	.0	2.4		4.7
SE	.0	.0	.0	2.6		4.0
S	3.1	2.9	2.1	.8		2.9
SW	2.6	4.4	7.6	1.4		5.2
W	2.1	2.6	8.9	.8		5.1
NW	4.2	7.7	6.0	2.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	19	20	38	19	96	4.8
TOT PCT	19.8	20.8	39.6	19.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
1.0	.0	.0	.0	1.0	1.0	4.4	1.4	.0	.0	.0	14.3	
.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	3.2	
.0	.0	.0	.0	.0	.8	1.0	.0	.0	.0	.0	3.4	
.0	.0	.0	.0	1.0	1.3	.0	.0	.0	.0	.0	.3	
.0	.0	.0	.0	1.0	1.8	.0	.0	.0	.0	.0	6.0	
.0	.0	.0	.0	1.0	6.8	.3	.0	.0	.0	.0	10.2	
.0	.0	.0	.0	.0	.8	2.9	1.0	.0	.0	.0	9.6	
.0	.0	.0	.0	.0	2.1	1.8	.9	.0	1.0	.0	14.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1	0	0	0	5	13	10	3	0	1	0	61	
1.0	.0	.0	.0	5.2	19.6	10.4	3.1	.0	1.0	.0	69.3	96

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
> OR >4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
> OR >3000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
> OR >1500	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
> OR >1000	9.3	14.7	14.7	14.7	14.7	14.7	14.7	14.7
> OR >1000	22.1	30.9	30.9	30.9	30.9	30.9	30.9	30.9
> OR >600	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
> OR >300	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
> OR >150	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
> OR >0	24.2	35.8	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	23	34	34	34	34	34	33	33

TOTAL NUMBER OF OBS: 95

PCT FREQ NM <5/8: 69.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
22.4	11.2	12.2	9.2	7.1	7.1	4.1	8.2	17.3	1.0	96

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1868-1973

OCTOBER

AREA 0013 PUERTO RISEADO
47.98 63.2M

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	3.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
	TOT %	3.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.4	.7	1.1	.4	2.5	1.1	.7	.0	.0	.0	.0	7.9
	NO PCP	4.3	1.8	3.2	1.1	.4	5.9	2.7	3.6	.0	.0	.0	22.9
	TOT %	5.7	2.5	4.3	1.4	2.9	7.0	3.4	3.6	.0	.0	.0	30.7
10+	PCP	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.7
	NO PCP	14.3	3.8	2.3	1.3	6.6	11.6	11.1	12.9	.0	.0	.0	63.6
	TOT %	14.8	3.8	2.3	1.3	6.6	11.6	11.1	12.9	.0	.0	.0	64.3
TOT OBS													
TOT PCT													
		24.5	7.3	6.6	2.7	9.5	18.6	14.5	14.4	.0	.0	100.0	140

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.2	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	2.4
	11-21	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	22+	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
	TOT %	3.0	.6	.0	.0	.6	.0	.0	.6	.0	.0	.0	4.9
1/2<1	0-3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	4-10	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6
5<10	0-3	1.2	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	1.8
	4-10	1.5	.0	1.8	.0	.0	.0	.0	2.1	.0	.0	.0	3.3
	11-21	1.2	.9	.9	.9	1.8	4.7	2.3	1.9	.0	.0	.0	14.4
	22+	2.4	.9	.9	.3	.6	1.2	.6	1.9	.0	.0	.0	8.3
	TOT %	6.4	2.1	3.7	1.2	2.7	6.3	2.9	5.2	.0	.0	.0	30.5
10+	0-3	.3	.3	.3	.3	.6	.6	.0	.0	.0	.0	.0	3.0
	4-10	2.3	2.3	1.3	.2	.6	2.9	2.6	3.9	.0	.0	.0	18.3
	11-21	4.9	.6	.3	.9	3.4	3.8	6.9	6.6	.0	.0	.0	27.4
	22+	5.3	.3	.0	.0	1.1	4.1	1.3	.9	.0	.0	.0	13.4
	TOT %	13.0	3.3	2.3	1.4	3.6	11.4	11.6	13.4	.0	.0	.0	62.2
TOT OBS													
TOT PCT													
		23.3	6.6	3.9	3.2	9.6	17.7	14.5	19.2	.0	.0	100.0	184

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1808-1973

AREA 0015 PUERTO RISEADO
47.93 63.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	4.5	.0	.0	4.5	13.6	9.1	4.5	.0	.0	.0	36.4	63.6	22
06009	.0	.0	.0	5.0	25.0	10.0	5.0	.0	.0	.0	45.0	55.0	20
12015	.0	.0	.0	3.6	7.1	14.3	.0	.0	3.6	.0	28.6	71.4	28
18021	.0	.0	.0	7.7	19.2	7.7	3.8	.0	.0	.0	38.5	61.5	26
TOT	1	0	0	3	15	10	3	0	1	0	33	61	96
PCT	1.0	.0	.0	5.2	15.6	10.4	3.1	.0	1.0	.0	36.5	63.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.3	2.4	2.4	.0	24.4	63.4	41
06009	5.9	2.9	.0	2.9	32.4	55.9	34
12015	5.9	.0	.0	.0	27.5	66.7	51
18021	.0	.0	2.6	.0	38.5	59.0	39
TOT	8	2	2	1	50	102	165
PCT	4.8	1.2	1.2	.6	30.3	61.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	4.5	4.5	9.1	27.3	63.6	22
06009	.0	.0	5.0	40.0	55.0	20
12015	.0	.0	3.6	25.0	71.4	28
18021	.0	.0	8.0	32.0	60.0	25
TOT	1	1	6	29	60	95
PCT	1.1	1.1	6.3	30.5	63.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.6	.0	.0	.0	1	.4
59/59	.0	.0	.6	.0	.0	.0	.6	.0	3	1.8
50/54	.0	.0	.6	.6	1.8	3.6	5.3	3.0	25	14.8
49/49	.0	.0	.0	.0	5.9	14.8	20.1	17.2	97	57.4
40/44	.0	.0	.0	.6	1.8	5.9	10.1	8.5	41	24.3
39/39	.0	.0	.0	.0	.0	.0	.6	.6	2	1.2
TOTAL	0	0	2	2	14	40	62	47	169	100.0
PCT	.0	.0	1.2	1.2	9.5	23.7	36.7	27.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0
59/59	.0	.0	.0	.0	.6	.0	.6	.6	.0	.0
50/54	3.1	.9	.4	.0	1.0	3.1	2.1	4.1	.0	.0
49/49	17.2	5.3	3.7	.4	2.8	8.7	9.8	11.4	.0	.0
40/44	2.7	.9	1.5	2.1	4.1	8.4	3.1	1.5	.0	.0
39/39	.0	.0	.3	.3	.3	.3	.0	.0	.0	.0
TOTAL	22.9	7.2	5.9	2.8	8.9	18.5	16.0	17.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	57	57	46	40	39	27	45.2	284
06009	57	54	51	46	39	37	37	45.5	163
12015	64	60	54	47	41	34	37	47.8	472
18021	64	59	55	48	42	41	41	48.3	162
TOT	64	59	54	47	41	39	37	47.0	1081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.3	4.8	20.5	40.9	29.5	83	44		
06009	.0	.0	10.5	23.7	26.5	39.5	84	38		
12015	.0	2.2	13.0	26.1	34.8	23.9	81	46		
18021	.0	4.8	7.1	23.8	45.2	19.0	81	42		
TOT	0	4	18	40	63	47	82	170		

OCTOBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1968-1973AREA 0019, PUERTO RICO
47.55 62.24

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	.0	.7	1	.0	.7
7/8	.0	.0	.0	1.5	.0	2	.0	1.5
6	.0	.0	.7	2.9	.0	5	.7	2.9
5	.0	.0	2.2	2.2	.0	6	.0	4.4
4	.0	.0	3.6	9.1	.0	12	.0	8.8
3	.0	.7	6.6	3.6	.0	15	.0	10.9
2	.0	1.5	9.5	.7	.0	16	1.5	10.2
1	.0	2.9	10.9	1.5	.0	21	1.5	19.9
0	.0	7.5	8.8	.0	.0	22	2.2	19.9
-1	.0	4.4	2.9	.0	.0	10	2.2	5.1
-2	.7	5.8	2.2	.0	.0	12	1.5	7.3
-3	1.5	3.6	.7	.7	.0	9	.7	5.8
-4	.0	2.2	.7	.0	.0	4	.0	2.9
-7/-8	.0	.0	.7	.0	.0	1	.0	.7
TOTAL	3	39	68	25	2	137	14	123
PCT	2.2	28.5	49.6	18.2	1.5	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1968-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.9	.0	.0	.0	2.9	.0	1.7	.0	.0	.0	.0	3.3
5-6	.0	.0	6.7	2.9	.0	.0	9.6	.0	.0	.7	.0	.0	.0	.0
7	.0	.0	1.7	1.7	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	10.8	4.6	2.5	.0	21.3	.0	1.7	1.7	1.7	.8	.0	5.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.3	.0	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	1.3	.0	.0	.0	5.8	.0	.4	4.2	.0	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1973

OCTOBER

AREA 0015 PUERTO RISEADO
47.35 63.2W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.7	.0	.0	.0	1.7	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.0	7.9	.0	.0	.0	2.9	.0	.0	6.7	.0	.0	.0	6.7
5-6	.0	.0	1.3	1.7	.0	.0	2.9	.0	.0	.4	1.7	.0	.0	2.1
7	.0	.0	1.7	.0	1.3	.0	2.9	.0	.0	.0	.0	.8	.0	.8
8-9	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	1.7	2.1	.0	3.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	9.2	1.7	1.3	.0	13.8	.0	2.1	7.1	3.0	2.9	.0	17.1

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.3	1.7	.0	.0	.0	4.2	.0	3.8	.0	.0	.0	.0	3.8	.0
3-4	.0	.0	3.3	1.7	.0	.0	5.0	.0	.0	4.2	.0	.0	.0	4.2	.0
5-6	.0	.0	7.9	.0	.0	.0	2.9	.0	1.7	3.4	.4	1.7	.0	9.2	.0
7	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	7.9	1.7	2.3	.0	14.6	.0	3.4	9.6	.4	1.7	.0	17.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	3.0	.0	.0	.0	.0	3.0	.0
1-2	.0	13.3	3.3	.0	.0	.0	16.7	.0
3-4	.0	.7	21.7	1.7	.0	.0	23.0	.0
5-6	.0	.7	18.3	6.7	1.7	.0	28.3	.0
7	.0	.0	3.0	1.7	6.7	.0	13.3	.0
8-9	.0	.0	3.3	3.3	3.3	.0	10.0	.0
10-11	.0	.0	.0	1.7	.0	.0	1.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	21.7	31.7	15.0	11.7	.0	100.0	60

PERIOD: (OVER-ALL) 1961-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	.0	2.2	13.3	8.9	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
1-2	.0	.0	9.9	16.7	2.2	12.2	1.1	3.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
3-4	.0	.0	.0	2.2	4.4	.0	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
5-6	.0	.0	.0	.0	2.2	1.1	3.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
7-9	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
10-11	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
14-15	.0	1.1	2.2	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
16-17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	6
TOTAL	.0	3.3	24.4	34.4	10.0	16.7	2.2	3.3	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	.0	3.3	24.4	34.4	10.0	16.7	2.2	3.3	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1960-1973

AREA 0015 PUERTO RISEADO
47.93 63.04

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	.0	3.1	.0	84.3
NE	13.6	.0	29.3	.0	.0	.0	.0	43.2	.0	.0	4.5	.0	.0	.0	52.3
E	5.1	.0	17.9	.0	.0	.0	.0	23.1	.0	.0	5.1	.0	.0	.0	71.8
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	3.8	.0	3.8	.0	.0	.0	.0	3.8	9.7	.0	.0	.0	.0	.0	90.3
SW	.0	2.0	.0	.7	.0	.0	.0	2.0	1.0	.0	.0	.0	.0	.0	97.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.4	.5	2.8	.0	.0	.0	.0	4.1	.9	.0	2.3	.0	.5	.0	92.2
TOT OBS:	218														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	1.5	.0	4.6	.0	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	93.8
0600	.0	.0	3.1	.0	.0	.0	.0	2.1	.0	.0	2.1	.0	.0	.0	95.8
1200	1.7	1.7	3.3	.0	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	90.0
1800	2.1	.0	.0	.0	.0	.0	.0	2.1	4.2	.0	2.1	.0	2.1	.0	89.6
TOT PCT TOT OBS	1.4 221	.5	2.7	.0	.0	.0	.0	4.1	.9	.0	2.3	.0	.5	.0	92.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	4.9	4.9	1.5	.1	.0		12.0	12.9		12.6	16.2	17.1	13.0	9.8	9.9	14.5	10.3
NE	.6	2.2	1.5	.2	.0	.0		4.4	9.6		6.6	7.5	7.9	4.6	3.5	2.3	.0	3.6
E	.3	1.6	.5	.0	.0	.0		2.3	9.1		3.5	2.0	3.7	.8	2.1	2.1	2.6	4.1
SE	.4	1.1	.5	.3	.0	.0		2.3	10.1		3.3	1.7	.7	1.8	1.8	2.4	5.9	2.1
S	.5	3.4	3.4	1.7	.4	.2		9.8	18.9		10.1	8.5	14.3	9.4	9.5	9.7	12.5	10.3
SW	1.1	6.0	7.9	4.4	1.8	.6		21.9	17.8		14.7	18.4	13.0	23.0	23.6	24.0	27.4	24.9
W	.9	7.5	11.1	2.9	1.3	.3		23.9	18.3		16.1	24.0	14.3	26.0	27.7	29.9	10.5	20.0
NW	1.0	6.4	8.8	3.6	.3	.0		20.1	14.3		23.1	20.3	19.3	18.9	17.9	17.3	21.1	22.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0		3.7	1.8	3.7	2.6	4.1	1.9	3.3	2.1
TOT OBS	130	482	371	214	59	17	1473		14.3		227	201	33	196	222	339	38	193
TOT PCT	6.8	32.7	38.8	14.3	4.0	1.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	09	12	18
N	2.3	6.0	3.0	.3	.0			12.0	12.9		14.4	13.6	9.9	11.2	
NE	1.7	2.1	.6	.0	.0			4.4	9.6		7.0	3.1	2.9	3.0	
E	.7	1.6	.2	.0	.0			2.3	9.1		2.8	1.3	2.1	3.9	
SE	.9	.8	.3	.0	.0			2.3	10.1		2.6	1.6	2.2	2.7	
S	1.4	4.2	2.7	1.1	.3			9.8	18.9		9.3	10.2	9.6	10.6	
SW	3.1	8.7	3.3	3.4	1.2			21.9	17.8		17.7	21.8	23.8	23.3	
W	3.5	11.4	6.6	1.6	.7			23.9	18.3		19.4	24.2	29.1	18.3	
NW	3.0	9.2	6.3	1.4	.0			20.1	14.3		22.8	18.9	17.7	22.3	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.1							3.1	.0		3.7	3.0	2.8	2.6	
TOT OBS	269	631	379	120	34	1473			14.3		428	231	381	233	
TOT PCT	19.6	44.2	23.7	8.1	2.3			100.0			100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO DESEADO
47.93 63.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.7	6.3	33.9	39.3	12.1	3.3	1.2	13.5	100.0	420
0600	3.0	6.9	31.6	39.0	14.7	3.5	1.3	14.5	100.0	231
1200	2.8	4.1	31.3	37.9	17.4	5.3	1.2	15.6	100.0	581
1800	2.6	7.3	35.2	39.9	11.6	2.6	.9	13.4	100.0	233
TOT	45	85	482	571	214	99	17	14.5		1473
PCT	3.1	5.8	32.7	38.8	14.5	4.0	1.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.4	2.4	4.8	1.8		4.6
NE	.2	.0	3.2	1.4		6.6
E	.0	.8	.8	.6		5.8
SE	1.0	.2	.0	.8		3.9
S	3.0	1.2	4.8	3.0		4.8
SW	11.2	2.8	6.0	3.8		5.5
W	6.0	3.0	2.8	2.8		3.7
NW	5.4	5.6	4.8	4.2		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.6	.0	1.6	2.8		4.6
TOT OBS	41	20	36	27	124	4.3
TOT PCT	33.1	16.1	29.0	21.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

AND ACCURACY OF NH <5/8 BY WIND DIRECTION											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.8	2.8	.6	.0	.0	.0	.0	11.3	
.0	.0	.0	.0	1.8	.0	1.6	.0	.0	.0	1.8	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.2	
.0	.0	.0	.8	1.8	2.4	.4	.0	.0	.0	6.7	
.0	.0	.0	.8	2.2	1.0	1.4	.0	.0	1.6	16.9	
.0	.0	.0	.0	2.4	1.4	.6	.0	.0	.0	10.3	
.0	.0	.0	.0	.4	5.8	.0	.0	.8	.0	13.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	2.4	
.0	.0	.0	3	17	15	.0	.0	1	2	81	124
.0	.0	.0	2.4	13.7	12.1	4.0	.0	.8	1.6	65.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >4500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>OR >4000	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>OR >3500	5.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6
>OR >3000	17.2	18.0	18.0	18.0	18.0	18.0	18.0	18.0
>OR >2500	28.4	30.3	31.1	31.1	31.1	31.1	31.1	31.1
>OR >2000	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>OR >1500	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>OR >1000	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>OR >500	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
>OR >0	27.0	32.0	33.6	33.6	33.6	33.6	33.6	33.6
TOTAL	33	39	41	41	41	41	41	41

TOTAL NUMBER OF OBS: 122

PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	30.4	12.7	7.5	2.2	11.9	6.7	4.9	6.7	17.2	134

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PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO RISEADO
47.93 63.04

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
	TOT %	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	.5	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.4
2<5	PCP	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.5	.5	.8	2.4	.9	.0	.0	.0	.0	9.1
	TOT %	.0	.2	.7	.5	.8	2.9	.9	.0	.0	.0	.0	6.0
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	5.9	1.0	2.1	1.2	3.7	4.6	4.8	3.0	.0	1.4	27.4	27.4
	TOT %	5.9	2.0	2.1	1.2	3.7	4.6	4.8	3.0	.0	1.4	28.4	28.4
10+	PCP	.0	.1	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0
	NO PCP	6.9	1.4	.9	.7	7.1	15.4	12.9	13.1	.0	2.3	60.0	60.0
	TOT %	6.9	1.5	1.3	.7	7.6	15.4	12.9	13.1	.0	2.3	61.0	61.0
TOT OBS													
TOT PCT													
		14.4	3.1	4.5	2.3	12.1	22.9	18.7	16.1	.0	3.7	100.0	217

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.2	.4	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.2	.4	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	2.0
2<5	0-3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.0	.2	.8	.0	.0	.8	.0	.0	.0	.0	.0	1.0
	11-21	.0	.0	.0	.0	.4	.4	.8	.0	.0	.0	.0	1.6
	22+	.0	.0	.0	.0	.3	1.3	.0	.0	.0	.0	.0	1.6
	TOT %	.0	.2	.4	.4	.7	2.5	.8	.0	.0	.0	.0	5.2
5<10	0-3	.4	.8	.0	.2	.2	.0	.0	.4	.0	1.2	3.2	3.2
	4-10	2.2	1.0	1.8	.8	.4	.6	1.4	.6	.0	.0	8.9	8.9
	11-21	2.7	.9	.4	.0	2.3	2.7	2.6	1.6	.0	.0	13.3	13.3
	22+	.4	.0	.0	.0	1.1	.7	.2	.0	.0	.0	2.4	2.4
	TOT %	5.7	2.7	2.2	1.0	4.0	4.0	4.2	2.6	.0	1.2	27.0	27.0
10+	0-3	.8	.0	.0	.0	.3	.3	.0	.4	.0	2.0	4.0	4.0
	4-10	2.7	.9	2.1	.4	2.7	5.8	3.3	5.3	.0	.0	23.4	23.4
	11-21	3.6	.8	.4	.6	4.8	8.1	7.3	6.0	.0	.0	31.9	31.9
	22+	.3	.0	.0	.0	.4	1.3	.7	.9	.0	.0	3.6	3.6
	TOT %	7.5	1.7	2.5	1.0	6.5	15.5	11.5	12.7	.0	2.0	62.9	62.9
TOT OBS													
TOT PCT													
		14.8	5.8	5.7	2.4	13.4	22.3	18.5	13.7	.0	3.2	100.0	248

PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1850-1973

NOVEMBER

AREA 0013 PUERTO DESHADO
47.38 63.0M

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

MOHR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	3.1	12.5	21.9	6.3	.0	.0	.0	43.8	56.3	32
06009	.0	.0	.0	.0	7.1	10.7	7.1	.0	.0	.0	25.0	75.0	28
12015	.0	.0	.0	5.9	14.7	2.9	2.9	.0	2.9	2.9	32.4	67.6	34
18021	.0	.0	.0	.0	16.7	11.1	.0	.0	.0	2.8	30.6	69.4	36
TOT	0	0	0	3	17	15	8	0	1	2	43	87	130
PCT	.0	.0	.0	2.3	13.1	11.5	3.8	.0	.8	1.5	33.1	66.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

MOHR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.4	.0	1.4	9.4	39.8	58.1	74
06009	1.9	.0	1.9	9.4	26.4	60.4	93
12015	2.8	.0	2.8	2.8	29.2	62.5	72
18021	1.9	.0	1.9	3.8	21.2	71.2	92
TOT	5	0	5	13	71	197	291
PCT	2.0	.0	2.0	5.2	28.3	62.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING MGT (FEET/NH >4/8) BY HOUR

MOHR (GMT)	<180 <5000	180-400 <1	400-1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.3	43.3	53.3	30
06009	.0	.0	3.8	23.1	73.1	26
12015	.0	.0	6.1	27.3	66.7	33
18021	.0	.0	3.7	47.3	69.7	33
TOT	0	0	5	37	80	122
PCT	.0	.0	4.1	30.3	65.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-24	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
69/69	.0	.0	.0	.4	.4	.0	.0	.0	2	1.2
80/64	.0	.0	.0	.0	1.2	.6	.0	.0	3	1.9
93/59	.0	.0	.0	1.2	5.6	6.2	2.3	.0	23	15.4
50/54	.0	.0	.6	2.9	8.0	10.5	10.5	2.3	69	42.6
43/49	.0	.0	.0	2.9	4.3	6.8	13.0	4.9	51	31.5
40/44	.0	.0	.0	.0	2.3	2.3	2.3	.0	12	7.4
TOTAL	0	0	1	11	32	43	39	16	162	100.0
PCT	.0	.0	.6	6.8	19.8	26.5	36.4	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

M	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.0	.0	.0	.6	.3	.0	.0
.6	.0	.0	.0	.0	.0	1.2	.0	.0	.0
4.0	.0	.6	.0	.6	1.3	3.3	3.1	.0	.0
8.6	2.0	1.1	.0	2.3	6.8	9.6	10.3	.0	1.2
3.2	1.2	.0	.0	2.8	13.9	3.4	4.9	.0	.0
.0	.0	.0	.0	3.1	2.3	1.9	.0	.0	.0
16.8	3.2	1.7	.6	8.8	24.7	22.2	20.7	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

MOHR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	58	55	49	43	42	38	48.3	419
06009	61	57	54	48	43	41	40	48.3	231
12015	67	61	57	50	44	42	40	50.8	361
18021	66	61	57	51	48	43	40	51.3	213
TOT	67	60	57	50	44	41	38	49.9	1426

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.3	17.0	19.1	42.6	12.8	78	47		
06009	.0	2.9	17.6	32.4	29.4	17.6	79	34		
12015	.0	11.4	16.2	22.7	40.9	6.8	76	44		
18021	.0	5.1	25.6	33.3	33.3	2.6	74	39		
TOT	0	12	32	43	61	16	77	164		

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PERIOD: (PRIMARY) 1902-1973
(OVER-ALL) 1860-1973

AREA 0015 PUERTO RICO
47.55 63.0W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	51 56	57 60	61 64	TOT	% FOG	NO FOG
11/13	.0	.0	.0	.0	.5	.0	3	.0	1.3
9/10	.0	.0	.0	2.3	1.4	.0	8	.0	3.7
7/8	.0	.0	.9	3.7	.9	.0	12	.0	5.6
6	.0	.0	2.3	1.9	.0	.0	9	.0	4.2
5	.0	.5	1.9	.0	.0	.0	5	.0	2.3
4	.5	.5	7.9	2.3	.9	.0	26	.0	12.1
3	.0	2.3	5.1	2.8	.5	.0	23	.0	10.7
2	.0	5.6	6.0	1.4	.9	.0	30	.0	14.0
1	.5	6.0	3.7	.9	.0	.0	24	.9	10.2
0	1.4	7.0	3.7	1.4	.0	.0	29	.5	13.0
-1	2.3	2.8	3.7	1.4	.0	.0	22	.0	10.2
-2	1.9	1.9	1.4	.0	.0	.0	11	.0	5.1
-3	.0	3.3	.0	.0	.0	.0	7	.5	2.8
-4	.9	.0	.0	.0	.0	.0	2	.5	.5
-5	.0	.5	.0	.0	.0	.0	1	.0	.5
-6	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.5	.0	.5	.0	.0	.0	2	.0	.9
TOTAL	17	65	81	39	11	2	215	5	210
PCT	7.9	30.2	37.7	16.1	5.1	.9	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
4-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.6	1.6	1.6	.0	.0	.0	4.8	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	1.6	2.4	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	6.0	.0	.0	.0	7.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.8	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	3.2	1.6	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	4.8	15.9	2.8	.0	.0	25.0	.0	3.2	.0	.0	.0	.0	3.2

	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0015 PUERTO DESEADO
47.55 63.04

TABLE 16 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	2.0	6.3	.0	.0	.0	8.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	1.6	.0	.0	6.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	3.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.6	.0	.0	.0	1.6	.0	9.9	13.1	6.3	.0	.0	29.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.4	
1-2	.0	1.2	1.2	.0	.0	.0	2.4	.0	8.3	.0	.0	.0	.0	8.3	
3-4	.0	1.2	3.2	.0	.0	.0	4.4	.0	1.6	2.4	.0	.0	.0	4.0	
5-6	.0	1.2	6.0	1.6	.0	.0	8.7	.0	.4	5.6	.0	.0	.0	6.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	3.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	11.3	1.6	.0	.0	16.7	.0	10.3	8.7	3.6	.0	.0	22.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	1.6	.0	.0	.0	1.6	
1-2	1.6	22.2	3.2	.0	.0	.0	27.0	
3-4	.0	7.9	13.9	.0	.0	.0	23.8	
5-6	.0	3.2	22.2	3.2	.0	.0	28.6	
7	.0	.0	3.2	1.6	.0	.0	4.8	
8-9	.0	.0	4.8	3.2	.0	.0	7.9	
10-11	.0	.0	.0	4.8	.0	.0	4.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.6	.0	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	33.3	50.8	14.3	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1951-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	2-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	16.3	16.3	8.8	3.8	3.8	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	4
6-7	.0	.0	3.8	8.8	7.3	5.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
7-9	.0	.0	2.5	5.0	1.3	2.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
10-11	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	.0	.0	2.5	.0	.0	1.3	1.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
TOTAL	.0	13	21	18	16	10	5	1	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	5
PCT	.0	16.3	26.3	22.5	12.5	12.5	6.3	1.3	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015, PUERTO RISEAD
47.85 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER PRZM	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	ROG MO PCPN	SMOKE HAZE	BLWG DUST	SPRAY	NO SIG
N	1.4	.0	.0	.0	.0	.0	.0	1.4	2.1	.0	3.5	.0	.0	.0	.0	92.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	9.1	.0	.0	.0	98.6
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	98.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.3
NW	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	16.3	.0	.0	.0	.0	81.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	.0	.0	.0	.0	.0	.0	.7	1.4	.0	4.1	.7	.0	.0	.0	93.2
TOT OBS	148															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	PRZG	SNOW	OTHER PRZM	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	ROG MO PCPN	SMOKE HAZE	BLWG DUST	SPRAY	NO SIG
0000Z	2.6	.0	.0	.0	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.0	94.7
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	9.0	.0	3.0	.0	.0	.0	.0	93.9
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	6.0	2.0	.0	.0	.0	90.0
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	97.0
TOT PCT	.6	.0	.0	.0	.0	.0	.0	.6	1.5	.0	3.9	.6	.0	.0	.0	93.5
TOT OBS	194															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	.4	3.0	5.6	1.7	.2	.0		13.2	13.6	13.4	12.2	18.0	14.2	14.2	10.6	23.7	12.6	
NE	.4	2.9	2.7	.5	.0	.0		6.8	11.8	9.5	6.6	10.0	6.0	8.1	4.7	8.7	7.5	
E	.5	1.9	.7	.2	.0	.0		3.1	9.7	4.4	5.3	3.0	3.3	3.4	1.9	.0	2.4	
SE	.9	1.5	.9	.2	.2	.2		3.9	12.3	9.2	4.4	1.0	4.7	7.5	2.7	2.2	3.9	
S	.8	4.9	3.6	1.4	1.2	.1		11.4	13.4	13.5	10.5	17.0	9.4	12.6	9.4	23.9	13.2	
SW	1.5	5.4	8.2	3.7	4.2	.8		23.7	20.0	21.7	18.9	23.0	24.9	24.2	26.4	8.7	24.9	
W	.8	7.0	7.4	3.2	1.0	.0		19.3	14.9	19.0	20.6	11.0	19.3	20.1	26.8	13.0	12.0	
NW	.2	6.8	7.0	2.3	.4	.0		16.8	14.0	19.8	19.7	17.0	15.4	12.2	17.6	9.8	20.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0	.0		1.7	.0	.5	1.9	.0	2.3	.5	1.9	.0	3.0	
TOT OBS	97	464	480	174	94	15	1324		13.1		182	180	23	139	194	414	23	167
TOT PCT	7.3	33.0	36.3	13.1	7.1	1.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-21	22-33	34-47				00	03	06	12	18
N	2.4	6.2	3.9	.7	.0		13.2	13.6	13.9	14.7	11.8	15.1	
NE	1.6	3.3	1.4	.2	.0		6.8	11.8	8.1	6.5	3.8	7.6	
E	1.0	1.6	.7	.0	.0		3.1	9.7	4.8	3.4	2.4	2.1	
SE	1.4	1.6	.5	.2	.2		3.9	12.3	4.8	4.2	3.2	3.7	
S	2.8	4.2	2.8	1.1	.9		11.4	13.4	12.1	10.5	10.4	14.5	
SW	3.7	7.8	5.6	4.1	2.3		23.7	20.0	19.9	24.6	23.7	22.9	
W	3.4	8.7	5.3	1.7	.4		19.3	14.9	17.6	18.3	23.3	12.1	
NW	2.9	8.0	4.9	.9	.2		16.8	14.0	17.6	13.6	13.9	19.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	.0	.0		1.7	.0	1.2	2.2	1.5	2.6	
TOT OBS	276	590	328	120	50	1324		13.1	342	184	608	190	
TOT PCT	20.8	41.3	24.6	9.1	3.8		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO RISEADO
47.35 62.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.2	7.9	40.9	31.3	13.2	4.7	.9	13.9	100.0	362
0600	2.2	3.8	36.4	35.3	13.0	8.7	.3	13.5	100.0	184
1200	1.3	5.8	29.1	40.6	13.5	7.9	1.6	13.9	100.0	608
1800	2.6	3.2	42.1	32.1	12.1	7.4	.3	14.4	100.0	190
TOT	22	73	464	480	174	94	13	13.1		1324
PCT	1.7	5.7	35.0	36.3	13.1	7.1	1.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	6.3	3.7	6.3	1.2		3.6
NE	.0	4.2	1.3	3.4		5.8
E	.0	2.1	.0	.0		3.3
SE	.0	.0	.0	.0		3.0
S	3.6	7.1	6.8	3.0		4.6
SW	3.4	1.3	7.7	1.8		4.3
W	6.3	.9	3.8	1.2		3.8
NW	6.3	2.7	4.2	1.8		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	24	21	28	11	84	4.1
TOT PCT	28.6	23.0	33.3	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

BY WIND DIRECTION						AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION												
WIND DIR	0-2	3-4	5-7	8 & OBSCT	TOTAL OBS	MEAN CLOUD COVER	000 1-4	150 2-9	300 5-9	600 9-9	1000 10-9	2000 34-9	3500 49-9	5000 64-9	6500 79-9	8000+	NH $\leq 5/8$ ANY HGT	TOTAL OBS
N	6.3	5.7	6.3	1.8		3.6	.9	.0	.0	1.2	.9	1.8	.0	.0	.0	.0	13.5	
NE	.0	4.2	1.3	3.4		5.8	1.2	.0	.0	1.2	.0	1.5	.0	.0	.0	.0	5.4	
E	.0	2.1	.0	.0		3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
SE	.0	.9	.0	.0		3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
S	3.6	7.1	6.8	3.0		4.6	.0	.0	.0	2.4	1.8	1.2	.0	.0	.0	.0	15.2	
SW	5.4	1.3	7.7	1.8		4.5	.0	.0	.0	1.5	3.0	.0	.0	.0	.0	.0	11.9	
W	6.3	.9	6.8	1.2		3.8	.0	.0	.0	2.1	1.2	.0	.0	.0	.0	.0	12.2	
NW	6.3	2.7	4.2	1.8		3.3	.3	.0	.0	.0	1.5	1.3	.0	1.2	.0	.0	10.7	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	24	21	28	11		4.1	2	0	0	7	7	3	0	1	0	0	62	
TOT PCT	28.6	23.0	33.3	13.1	100.0		2.4	.0	.0	8.3	8.3	6.0	.0	1.2	.0	.0	73.3	84

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>2	>1/2	>1/4	>0.0
>4800	.0	.0	.0	.0	.0	.0	.0	.0
>3600	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2400	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>1200	6.9	6.9	6.9	8.0	8.0	8.0	8.0	8.0
>600	13.8	14.9	14.9	16.1	16.1	16.1	16.1	16.1
>300	20.7	23.0	23.0	24.1	24.1	24.1	24.1	24.1
>150	20.7	23.0	23.0	24.1	24.1	24.1	24.1	24.1
>0	20.7	23.0	24.1	25.3	26.4	26.4	26.4	26.4
TOTAL	18	20	21	22	23	23	23	23

TOTAL NUMBER OF OBS: 87

PCT FREQ NM <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
25.0	12.3	10.4	12.3	9.4	9.4	6.3	6.3	7.3	1.0	96

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

DECEMBER

AREA 0013 PUERTO RISEADO
47.85 62.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
	TOT %	.3	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
1<2	PCP	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.7
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	1.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	2.4	.0	.0	.0	.3	2.4	.0	.5	.0	.0	.0	6.1
	TOT %	2.4	.0	.0	.0	.3	2.4	.0	.5	.0	.0	.0	6.1
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	3.2	1.5	.0	.0	1.0	3.7	1.0	5.7	.0	.0	.0	16.2
	TOT %	3.2	1.5	.0	.0	1.0	3.7	1.0	5.7	.0	.0	.0	16.2
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	16.9	3.2	1.2	.7	17.6	14.7	8.1	10.6	.0	.0	.0	79.0
	TOT %	16.9	3.2	1.2	.7	17.6	14.7	8.1	10.6	.0	.0	.0	79.0
TOT OBS													148
TOT PCT		24.3	7.4	1.2	.7	18.9	20.8	9.1	17.6	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.3	1.4	.0	.0	.0	.0	.0	1.7
	11-21	1.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	2.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.4	.0	.0	.0	.3	2.0	.0	.4	.0	.0	.0	5.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
	11-21	2.1	1.3	.0	.0	.3	2.3	.4	1.1	.0	.0	.0	7.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.7	1.3	.0	.0	.3	3.1	.4	2.7	.0	.0	.0	13.4
10+	0-3	.0	.0	.0	.1	2.0	.4	.3	.0	.0	.0	.0	3.4
	4-10	9.1	2.3	1.3	.4	6.1	7.3	4.1	7.8	.0	.0	.0	39.1
	11-21	4.1	2.4	.0	.0	3.7	6.3	3.9	3.4	.0	.0	.0	29.7
	22+	1.3	.0	.0	.0	2.4	4.3	2.1	.8	.0	.0	.0	11.2
	TOT %	15.2	4.9	1.3	.4	16.2	18.6	10.3	12.0	.0	.0	.0	79.3
TOT OBS													179
TOT PCT		21.4	6.7	1.3	.4	17.3	23.6	11.2	17.7	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1866-1973

APEA 0015 PUERTO RSEADO
47.55 63.04

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 289	300 599	300 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.6	5.6	11.1	.0	5.6	.0	.0	27.8	72.2	18
06009	.0	.0	.0	5.3	15.8	.0	.0	.0	.0	.0	21.1	78.9	19
12015	6.7	.0	.0	6.7	10.7	6.7	.0	.0	.0	.0	30.0	70.0	30
18021	.0	.0	.0	13.0	.0	8.7	.0	.0	.0	.0	21.7	78.3	23
TOT	2	0	0	7	7	6	0	1	0	0	23	67	90
PCT	2.2	.0	.0	7.8	7.8	6.7	.0	1.1	.0	.0	25.6	74.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	4.3	4.3	10.9	80.4	46
06009	.0	2.6	.0	7.7	15.4	74.4	39
12015	.0	1.7	3.3	6.7	16.7	71.7	60
18021	.0	.0	.0	.0	7.5	92.5	40
TOT	0	2	4	9	24	146	185
PCT	.0	1.1	2.2	4.9	13.0	78.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.1	16.7	72.2	18
06009	.0	.0	5.9	17.6	76.5	17
12015	6.7	6.7	13.3	16.7	70.0	30
18021	.0	.0	12.6	9.1	77.3	22
TOT	2	2	10	13	64	87
PCT	2.3	2.3	11.5	14.9	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.6	2.5	1.8	.0	8	4.9
55/59	.0	.0	.0	1.8	1.8	6.7	11.0	.0	39	21.3
50/54	.0	.0	.0	3.7	9.2	11.0	16.6	12.3	66	52.8
45/49	.0	.0	.0	2.5	4.3	.6	10.4	3.1	34	20.9
TOTAL	0	0	0	13	26	34	65	25	163	100.0
PCT	.0	.0	.0	8.0	16.0	20.9	39.9	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.5	.0	.0	.0	1.2	.6	1.1	.5	.0	.0	.0
7.2	1.2	.0	.0	1.7	1.7	5.6	3.8	.0	.0	.0
10.4	4.1	1.1	.3	10.9	10.9	2.6	12.3	.0	.0	.0
4.3	1.4	.0	.0	3.4	6.9	.6	2.3	.0	.0	.0
23.5	6.7	1.1	.5	19.2	20.1	10.1	18.9	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	64	61	59	52	46	44	43	51.9	337
06009	69	59	57	51	45	43	42	51.1	184
12015	70	64	61	54	47	44	42	53.9	567
18021	66	65	61	54	47	43	42	51.9	171
TOT	70	64	60	53	47	44	42	53.0	1279

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	14.0	20.0	52.5	7.5	79	40		
06009	.0	3.7	14.3	20.0	37.1	22.9	61	35		
12015	.0	7.1	17.9	19.6	37.5	17.9	78	56		
18021	.0	13.8	13.2	26.3	34.2	10.5	76	38		
TOT	0	14	26	36	66	25	79	169		

DECEMBER

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1864-1973

AREA 0015 PUERTO DESEADO
47.55 63.04

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	43 48	49 52	53 56	57 60	61 64	TOT	N FOG	LD FG
14/16	.0	.0	.0	.0	.7	1	.0	.7
11/13	.0	.0	.0	.0	.7	1	.0	.7
9/10	.0	.0	.0	1.3	.7	2	.0	2.0
7/8	.0	.0	2.0	2.4	1.3	5	.0	6.0
6	.0	.7	2.0	1.3	.0	3	.0	4.0
5	.0	.0	3.3	2.0	.0	5	.0	5.3
4	.0	4.0	2.6	2.0	.0	13	.7	7.9
3	.7	3.3	0.0	2.0	.0	10	2.0	9.9
2	.0	4.0	4.6	.7	.0	14	.7	8.6
1	.7	14.6	2.6	.7	.0	20	.0	18.5
0	3.3	9.9	4.6	.0	.0	27	.0	17.9
-1	3.3	2.6	1.3	.0	.0	11	.0	7.3
-2	2.6	1.3	1.3	.0	.0	5	.7	4.6
-3	.0	.7	.0	.0	.0	1	.0	.7
-5	1.3	.7	.0	.0	.0	2	.0	2.0
TOTAL	18	63	46	19	9	151	6	145
PCT	11.9	41.7	30.5	12.6	3.4	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	4.3	1.7	.0	.0	.0	6.3	.0	.8	.0	.0	.0	.0	.6
1-2	.0	2.3	2.3	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	2.3
3-4	.0	.0	4.3	.0	.0	.0	4.3	.0	2.3	.0	.0	.0	.0	4.3
4-6	.0	.0	2.3	.0	.0	.0	2.3	.0	2.3	2.3	.0	.0	.0	4.3
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	12.5	.0	.0	.0	14.3	.0	9.1	2.3	.0	.0	.0	7.4

WGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
01	.0	1.7	.0	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.6
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	.0	.0	.0	.0	4.0	.0	1.1	.0	.0	.0	.0	1.1

AREA 0013 PUERTO DESZADO
47.55 63.0W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

[illegible]

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HRT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT 083
61	2.3	11.4	2.3	.0	.0	.0	15.9	
1-2	.0	6.8	11.4	.0	.0	.0	18.2	
3-4	.0	4.5	13.6	2.9	.0	.0	20.3	
5-6	.0	4.5	9.1	6.8	.0	.0	20.3	
7	.0	.0	11.4	2.3	.0	.0	13.6	
8-9	.0	.0	.0	2.3	2.3	.0	4.5	
10-11	.0	.0	.0	.0	2.3	.0	2.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	2.9	.0	.0	2.3	
17-19	.0	.0	.0	.0	2.3	.0	2.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	27.3	47.7	13.9	6.8	.0	100.0	64

PERCENT FREQUENCY OF AVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1954-1973

ANNUAL

AREA 0015 PUERTO RISEADO
47.55 63.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	.9	.7	.0	.0	.0	.0	4.2	.9	.3	7.9	.0	.5	.0	86.2
NE	4.9	2.4	6.4	.0	2.1	.0	.0	19.7	2.3	.0	3.5	.8	.2	.0	75.5
E	11.6	.9	4.1	.0	.0	.0	.0	16.6	10.6	.0	3.3	.0	.7	.0	68.9
SE	2.3	3.7	1.2	.0	.0	.0	.0	7.2	2.6	.0	1.8	3.6	.7	.0	82.1
S	2.8	4.0	3.7	.0	1.3	.0	1.1	11.9	4.8	.2	2.1	1.9	.0	.0	79.1
SW	1.4	2.2	2.4	.0	1.2	.0	.3	7.0	3.9	.1	1.9	.0	.0	.0	87.0
W	1.4	.7	.2	.0	.1	.0	.3	2.5	.9	.2	3.1	.0	.0	.0	91.3
NW	.9	.3	.9	.0	.0	.0	.0	2.1	.8	.7	8.1	.0	.3	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	90.0
TOT PCT	2.4	1.4	1.6	.0	.4	.0	.2	5.8	2.1	.3	5.4	.3	.3	.0	85.7
TOT OBS:	1994														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	PRZG PCPN	SNOW	OTHER PRZG PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.3	1.2	2.3	.0	.4	.0	.4	6.6	2.4	.3	6.9	.6	.6	.0	82.5
0600	2.5	1.3	2.6	.0	.2	.0	.3	6.9	1.6	1.1	4.1	.0	.0	.0	86.3
1200	2.2	1.4	1.1	.0	.4	.0	.3	3.0	2.1	.2	6.0	.2	.4	.7	86.2
1800	2.5	1.4	.8	.0	.3	.0	.0	4.6	2.2	.0	3.3	.2	.4	.0	87.3
TOT PCT	2.3	1.3	1.6	.0	.4	.0	.2	3.7	2.1	.4	5.6	.2	.4	.0	83.6
TOT OBS:	1975														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.1	5.1	2.2	.4	.0		12.6	14.8		14.3	13.9	16.3	12.6	12.3	10.9	18.9	11.9
NE	.4	2.1	1.8	.6	.1	.0		3.0	12.3		3.4	3.1	5.8	4.3	4.9	5.0	5.3	5.0
E	.4	1.5	1.0	.4	.1	.0		3.4	11.3		4.0	3.7	2.9	3.3	3.3	3.0	1.9	3.9
SE	.5	1.9	1.3	.3	.2	.0		4.3	12.6		4.7	5.0	4.1	4.4	4.6	4.4	3.9	4.3
S	.7	3.1	3.1	1.3	1.0	.3		9.8	17.3		11.1	9.3	12.0	8.9	9.3	9.3	8.2	10.3
SW	1.0	3.3	6.8	4.1	2.7	1.0		20.8	19.9		18.5	17.9	17.6	21.1	22.1	22.1	20.1	22.9
W	1.0	6.6	8.8	4.1	1.4	.4		22.2	16.4		19.2	22.2	16.9	22.5	22.9	24.8	19.9	20.6
NW	.8	3.7	6.4	3.9	.9	.1		20.0	16.1		21.0	21.4	23.2	20.6	18.7	18.4	22.0	20.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.8	1.6	1.1	2.1	1.6	1.9	.9	1.6
TOT OBS							17432		16.1		2399	2353	323	2347	2616	4478	362	2344
TOT PCT	7.4	30.3	36.4	17.3	6.7	1.9		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT PRGQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	2.2	5.3	3.8	1.0	.1				13.9	13.1	11.4	12.8	
NE	1.4	2.2	1.2	.2	.0				3.3	4.7	3.0	3.0	
E	1.1	1.4	.7	.2	.0				3.4	11.3	3.9	3.2	3.3
SE	1.4	1.8	1.0	.3	.1				4.3	12.6	4.9	4.3	4.3
S	1.9	3.3	2.3	1.3	.7				9.8	17.3	10.3	9.2	10.1
SW	2.9	7.0	5.3	3.3	2.1				20.8	19.9	18.3	20.7	22.1
W	3.3	9.2	6.6	2.3	.9				22.2	16.4	20.6	21.9	24.1
NW	2.7	6.3	6.3	2.0	.4				21.2	20.1	21.2	20.9	18.3
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0	.0
CALM	1.8								1.8	.0	1.7	1.9	1.8
TOT OBS						17432		16.1	4932	2680	7094	2706	
TOT PCT	18.6	38.9	27.6	10.6	4.3				100.0		100.0	100.0	100.0

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

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AREA 0015, PUERTO DESEADO
47.55 63.04

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	1.7	6.4	31.9	35.9	16.4	5.7	2.0	19.6	100.0	4952
0600Z	1.9	6.5	31.6	35.7	16.1	6.3	1.8	19.7	100.0	2680
1200Z	1.8	5.1	28.2	36.7	18.6	7.5	2.0	16.7	100.0	7094
1800Z	1.5	4.8	31.7	37.0	17.0	6.4	1.6	16.0	100.0	2706
TOT								16.1		17432
PCT	1.8	5.6	30.3	36.4	17.3	6.7	1.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	5.4	2.6	5.5	4.7		4.6
NE	7.7	1.9	1.6	1.7		3.7
E	3.3	1.6	1.7	1.6		3.1
SE	1.6	1.2	1.9	1.0		3.5
S	2.1	2.1	3.7	2.5		4.9
SW	6.9	3.9	6.7	3.5		4.3
W	7.2	2.7	5.5	2.9		4.0
NW	6.9	4.8	6.3	3.1		4.0
VAR	1.0	1.0	1.0	1.0		1.0
CALM	1.6	1.1	1.5	1.7		2.1
TOT OBS					1219	4.4
TOT PCT	30.7	17.8	31.3	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NM >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <4/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.7	.1	.4	.6	1.8	1.5	.4	.1	.4	.7	11.5	
NE	.2	.1	.2	.3	.8	.3	.4	.3	.0	.0	2.3	
E	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	1.2	
SE	.1	.1	.0	.2	.6	.1	.3	.0	.1	.0	1.3	
S	.1	.7	.1	1.2	2.0	.8	.4	.1	.0	.0	5.3	
SW	.0	.1	.1	1.0	2.8	1.6	.9	.2	.1	.3	14.0	
W	.0	.0	.2	.6	1.6	1.4	.7	.4	.1	.1	13.2	
NW	.1	.1	.1	.6	1.3	1.5	.4	.3	.2	.4	15.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.8	
TOT OBS												1219
TOT PCT	1.2	.4	1.1	4.8	11.3	7.6	4.2	1.4	.8	1.5	63.5	100.0

TABLE 7

CUMULATIVE PCT REQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>5000	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.8
>3500	6.0	7.7	7.9	8.1	8.1	8.1	8.1	8.1
>2000	11.1	14.8	15.2	15.3	15.6	15.6	15.6	15.6
>1000	20.3	29.8	26.3	26.9	26.9	26.9	26.9	26.9
>600	23.7	30.3	31.3	31.7	31.8	31.8	31.8	31.8
>300	24.4	31.4	32.3	32.7	32.8	32.8	32.8	32.8
>150	24.5	31.8	32.8	33.2	33.2	33.2	33.2	33.2
>0	24.6	31.9	33.0	33.6	33.8	34.0	34.4	34.5

TOTAL NUMBER OF OBS: 1234

PCT FREQ NM <5/8: 63.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
24.3	13.2	10.0	7.7	9.4	5.3	6.8	8.4	14.0	1.0	1203

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

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APEA 0015 PUERTO DESEADO
47.9S 63.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	.0	.0	.0	*	*	.0	.0	.0	.1	
	NO PCP	.7	.1	.0	*	.1	*	.1	.5	.0	.1	1.7	
	TOT %	.7	.2	.0	*	.1	.1	.1	.5	.0	.1	1.7	
1/2<1	PCP	.0	.0	.1	.1	.1	.0	*	.0	.0	.0	.3	
	NO PCP	.7	.1	.0	.0	.0	.0	*	.1	.0	.0	.4	
	TOT %	.2	.1	.1	.1	.1	.0	.1	.1	.0	.0	.7	
1<2	PCP	*	.1	*	.0	.0	.1	*	*	.0	.0	.3	
	NO PCP	.2	*	*	*	.0	.0	.0	*	.0	.0	.4	
	TOT %	.3	.2	*	*	.0	.1	*	.1	.0	.0	.7	
2<5	PCP	.1	*	*	.0	.2	.2	.0	.1	.0	.0	.3	
	NO PCP	.9	*	*	.1	.7	.5	.2	.5	.0	.0	2.0	
	TOT %	.6	.1	.1	.1	.4	.7	.2	.5	.0	.0	2.5	
5<10	PCP	.7	.6	.3	.1	.8	.8	.5	.3	.0	.0	3.9	
	NO PCP	4.6	1.2	1.1	.9	2.3	4.6	3.8	3.5	.0	.2	24.2	
	TOT %	5.3	1.8	1.4	1.0	3.1	5.3	4.1	3.8	.0	.2	28.0	
10+	PCP	.1	*	*	.0	.7	.3	.1	.1	.0	.0	.3	
	NO PCP	12.0	3.0	1.7	1.4	6.6	13.7	12.8	14.3	.0	.7	65.5	
	TOT %	12.1	3.0	1.7	1.4	6.8	14.0	12.8	14.3	.0	.7	66.3	
TOT OBS													1929
TOT PCT													19.1 3.3 2.8 2.6 10.4 20.1 17.4 21.3 .0 1.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	*	.2	.0	.1	.4	
	4-10	.4	.1	.0	*	.1	*	.1	.3	.0		1.0	
	11-21	.3	*	.0	.0	.0	.0	*	.1	.0		.4	
	22+	.1	*	.0	.0	.0	*	*	.0	.0		.2	
	TOT %	.8	.1	.0	*	.1	.1	.2	.3	.0	.1	2.0	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	*	*	.0	.0	.1	
	4-10	.0	.1	.0	.0	.1	.0	*	.0	.0		.2	
	11-21	.2	*	.1	*	*	.0	.0	.1	.0		.4	
	22+	.1	.1	.0	*	.0	.0	.0	.0	.0		.2	
	TOT %	.3	.2	.1	.1	.1	.0	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.1	.1	*	.0	.0	.0	*	*	.0		.2	
	11-21	.2	*	.0	.0	.0	*	.0	.1	.0		.3	
	22+	.0	*	.0	.0	.0	.1	*	.0	.0		.1	
	TOT %	.2	.2	*	*	.0	.1	.1	.1	.0	.0	.7	
2<5	0-3	.0	.0	.0	*	*	.1	.0	.0	.0	.0	.1	
	4-10	.4	*	.1	.1	.1	.3	.1	.2	.0		.9	
	11-21	.4	.1	*	.1	.2	.1	.1	.2	.0		1.3	
	22+	.2	.1	.1	.1	.1	.2	.0	.1	.0		.9	
	TOT %	.7	.2	.2	.4	.4	.7	.2	.5	.0	.0	3.3	
5<10	0-3	.3	.1	.1	.1	.2	.1	.2	.1	.0	.1	1.4	
	4-10	1.0	.6	.8	.5	.4	1.0	1.0	1.6	.0		6.9	
	11-21	2.2	.9	.5	.3	1.0	2.0	1.6	2.1	.0		10.5	
	22+	1.2	.3	.2	.1	1.1	1.7	.9	1.2	.0		6.9	
	TOT %	4.7	1.9	1.6	1.0	2.8	4.8	3.7	5.0	.0	.1	25.7	
10+	0-3	.5	.1	.2	.1	.5	.3	.4	.3	.0	.8	3.3	
	4-10	3.7	1.2	1.0	1.0	2.0	4.7	4.3	3.2	.0		22.3	
	11-21	4.7	1.3	.3	.6	3.8	6.3	5.7	6.9	.0		29.4	
	22+	2.2	.5	*	*	1.2	4.3	2.5	1.4	.0		12.1	
	TOT %	11.1	3.0	1.5	1.7	7.2	15.2	12.9	13.9	.0	.8	67.4	
TOT OBS													2399
TOT PCT													17.9 3.6 3.4 3.3 10.6 20.9 17.0 20.1 .0 1.0 100.0

ANNUAL

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973APEA 0015 PUERTO RISEAD
47.35 63.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	500 599	600 699	700 799	800 899	900 999	1000 1099	1100 1199	1200 1299	1300 1399	1400 1499	1500 1599	1600 1699	1700 1799	1800 1899	1900 1999	2000 2099	2100 2199	2200 2299	2300 2399	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
00003	.7	.6	1.0	4.2	8.9	7.6	6.8	.9	.0	.3	31.2	68.8	269													
06009	1.0	.0	.7	5.0	11.0	4.4	3.8	1.6	.6	1.1	29.3	70.7	293													
12015	2.0	.9	1.1	3.8	13.1	9.3	3.2	1.2	1.7	2.0	38.4	61.6	363													
18021	.5	.0	1.4	6.0	11.1	8.3	3.4	1.6	.7	2.5	33.3	66.5	342													
TOT PCT	1.2	.4	1.1	4.7	11.1	7.4	4.2	1.3	.8	1.5	33.7	66.3	1271												100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<4	4<5	5<6	6<7	7<8	8<9	9<10	10<11	11<12	12<13	13<14	14<15	15<16	16<17	17<18	18<19	19<20	20<21	21<22	22<23	23<24	TOTAL OBS
00003	2.4	1.0	.9	4.7	29.3	61.7	646																			
06009	1.5	1.4	.9	4.3	25.9	66.1	321																			
12015	2.3	.5	1.0	1.8	25.2	69.2	724																			
18021	1.6	.7	1.0	1.9	22.6	72.2	349																			
TOT																										
PCT	2.0	.9	.9	3.2	23.9	67.2	2440																			100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.7	2.3	9.3	24.0	66.4	261
06009	1.1	2.1	9.1	21.6	69.2	284
12015	2.1	4.2	9.1	29.9	60.9	337
18021	.3	2.0	10.1	27.2	62.7	329
TOT						
PCT	1.2	2.8	9.3	25.8	64.8	1234

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1
69/69	.0	.0	.0	.1	.2	.4	.2	.1	.9	.9
68/64	.0	.0	.0	.2	1.0	1.8	1.3	1.0	5.4	5.4
59/59	.0	.0	.0	.6	1.9	3.0	5.8	2.3	15.8	15.8
50/44	.0	.0	.2	1.1	3.3	3.7	10.7	4.0	23.2	23.2
49/49	.0	.0	.0	1.2	3.0	3.3	10.7	7.0	30.4	30.4
46/44	.0	.0	.1	1.0	2.8	3.1	5.1	5.3	19.2	19.2
39/39	.0	.0	.0	.1	.4	.7	.8	.7	2.7	2.7
30/34	.0	.0	.0	.0	.0	.1	.1	.1	.2	.2
TOTAL									1807	100.0
PCT	.0	.0	.3	4.2	12.6	27.4	34.8	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.2	.1	.1	.0	.1	.1	.2	.2	.0	.0
1.3	.2	.1	.2	.4	.3	1.1	1.4	.0	.2
3.7	.4	.2	.3	1.3	2.3	2.8	4.7	.0	.0
4.7	1.3	.3	.3	2.2	3.4	3.9	6.8	.0	.1
6.9	1.8	.6	.6	2.7	3.0	3.6	6.8	.0	.3
2.7	.9	.8	.8	2.7	4.6	4.0	2.3	.0	.1
.2	.1	.1	.0	.8	.9	.2	.3	.0	.1
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
19.6	4.7	2.3	2.6	10.2	19.2	18.0	22.7	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	69	57	54	49	43	40	31	47.9	4858
06009	66	56	54	48	42	40	32	47.3	2656
12015	71	60	56	50	43	41	33	49.1	6834
18021	73	60	57	50	44	41	32	49.3	2374
TOT	73	59	55	49	43	40	31	48.6	16942

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.4	12.7	23.6	33.9	25.4	81	460		
06009	.0	3.3	10.9	26.8	35.4	23.4	82	416		
12015	.0	4.7	11.0	30.3	33.7	20.1	80	327		
18021	.0	3.7	14.8	28.6	36.8	14.1	79	443		
TOT	.0	82	22.7	494	638	383	30	1846		

ANNUAL

PERIOD: (PRIMARY) 1901-1973
(OVER-ALL) 1854-1973

TABLE 17

APEA 0015 PUERTO RSEADO
47.95 63.0M

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITHOLT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	33 38	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.1	.1
11/13	.0	.0	.0	.0	.0	.1	.7	.3	.0	.0	8	.0	.4
9/10	.0	.0	.0	.1	.1	.3	.4	.3	.1	.0	23	.1	1.0
7/8	.0	.0	.0	.1	.5	.7	.7	.5	.2	.0	53	.0	2.7
6	.0	.0	.0	.2	.8	.7	.5	.3	.0	.0	51	.1	2.5
5	.0	.0	.1	.7	.9	1.1	1.2	.5	.3	.0	88	.0	4.7
4	.0	.0	.2	1.4	2.0	1.2	.7	.1	.0	.0	111	.1	5.9
3	.0	.0	.3	2.7	2.6	2.0	1.5	.3	.0	.0	177	.4	8.9
2	.0	.0	1.1	4.5	2.6	2.4	1.1	.3	.0	.0	230	1.1	10.9
1	.0	.0	.8	4.1	3.9	2.4	.9	.1	.0	.0	234	.5	11.6
0	.0	.0	3.6	4.8	3.1	2.5	.6	.2	.0	.0	279	1.4	13.5
-1	.0	.2	3.4	2.1	2.0	1.7	.3	.0	.0	.0	184	.4	9.3
-2	.0	.4	3.8	1.6	1.1	1.0	.2	.0	.0	.0	154	.5	7.7
-3	.0	1.2	2.5	1.3	.9	.5	.1	.0	.0	.0	120	.4	6.0
-4	.1	.6	1.8	.8	.3	.5	.1	.0	.0	.0	76	.2	3.8
-5	.1	.6	.6	.3	.3	.0	.0	.0	.0	.0	36	.0	1.9
-6	.1	.7	.3	.2	.2	.0	.0	.0	.0	.0	29	.1	1.5
-7/-8	.0	.5	.2	.3	.2	.1	.0	.0	.0	.0	26	.0	1.3
-9/-10	.5	.3	.0	.2	.0	.0	.0	.0	.0	.0	20	.0	1.1
-11/-13	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	6	.0	.3
TOTAL											1907		
PCT	.4	4.4	19.6	25.6	21.3	17.2	8.5	2.9	.5	.1	100.0	9.3	94.7

PERIOD: (OVER-ALL) 1903-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.2	.9	.1	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.2
1-2	.6	2.0	1.7	.0	.0	.0	4.3	.0	.5	.6	.0	.0	.0	.0	1.1
3-4	.1	1.4	3.0	.3	.0	.0	4.8	.0	.4	.7	.0	.0	.0	.0	1.1
5-6	.0	.9	3.0	1.3	.0	.0	5.2	.0	.2	.4	.0	.0	.0	.0	.6
7	.0	.7	1.2	1.8	.2	.0	3.2	.0	.0	.2	.0	.1	.0	.0	.2
8-9	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.2	.1	.0	.0	.5	.0	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.4	.1	.0	.5	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.2	10.3	4.6	.4	.0	21.7	.0	1.2	1.8	.6	.2	.0	.0	3.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.6	.2	.0	.0	.0	.8	.1	.1	.0	.0	.0	.0	.0	.2
1-2	.1	1.1	.5	.0	.0	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.5
3-4	.0	.1	.5	.2	.0	.0	.8	.0	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.8	1.3	.2	.0	.0	3.5	.1	.7	.9	.2	.0	.0	.0	1.9

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0015 PUERTO DESEADO
47.95 63.04

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.4	.1	.0	.0	.0	1.2	.4	.3	.1	.0	.0	.0	.8
1-2	.1	.6	1.2	.0	.0	.0	1.9	.7	2.1	1.2	.0	.0	.0	3.3
3-4	.1	.2	1.7	.9	.0	.0	2.5	.0	1.1	3.0	.0	.0	.0	4.1
5-6	.0	.3	1.6	.3	.0	.0	2.5	.1	.4	2.2	1.7	.0	.0	4.4
7	.0	.1	.4	.2	.1	.0	.9	.0	.2	1.1	1.6	.1	.0	2.9
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	1.0	.4	.0	1.6
10-11	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.6
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.9	9.2	1.2	.2	.0	9.5	.5	4.1	7.7	5.9	.9	.0	19.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.8	.1	.0	.0	.0	1.0	.0	.6	.2	.0	.0	.0	.8	
1-2	.1	1.8	.0	.0	.0	.0	3.4	.7	3.6	1.3	.0	.0	.0	5.1	
3-4	.0	1.9	3.8	.3	.0	.0	5.8	.0	1.8	4.9	.4	.0	.0	7.1	
5-6	.0	.4	2.1	1.2	.0	.0	3.7	.0	.5	3.4	.4	.1	.0	4.4	
7	.0	.0	1.0	.8	.1	.0	1.9	.0	.0	2.2	.7	.0	.0	3.0	
8-9	.0	.0	.2	.3	.2	.0	.8	.0	.0	.3	.3	.0	.0	.6	
10-11	.0	.1	.0	.7	.0	.0	.8	.0	.0	.0	.3	.2	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	.1	.1	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	4.7	8.8	3.7	.7	.0	18.1	.7	6.5	12.3	2.5	.4	.0	21.8	99.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.2	4.2	.9	.0	.0	.0	7.3	
1-2	1.4	11.9	7.8	.0	.0	.0	21.1	
3-4	.4	6.9	17.5	1.7	.0	.0	26.6	
5-6	.1	2.9	13.0	4.8	.1	.0	21.0	
7	.0	.4	6.4	5.1	.6	.0	12.5	
8-9	.0	.0	2.2	2.2	.6	.0	5.0	
10-11	.0	.1	.3	2.5	.3	.0	3.2	
12	.0	.0	.0	.8	.4	.0	1.2	
13-16	.0	.0	.0	1.3	.4	.0	1.7	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	26.3	48.0	18.7	2.8	.0	100.0	614

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	8.0	13.5	8.3	3.2	2.3	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	414	4
6-7	.1	.3	5.1	9.1	3.4	3.3	1.1	1.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	289	6
8-9	.0	.3	1.1	2.7	2.7	2.0	1.8	.7	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	133	8
10-11	.0	.1	.6	.9	.7	1.0	1.0	.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	8
12-13	.0	.0	.6	.7	.2	.3	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.3	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
INDEX	1.2	1.1	2.7	1.5	.9	.5	.8	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	5
TOTAL																				1031	6
PCT	2.6	9.6	25.7	23.5	14.1	9.5	3.4	3.8	4.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1901-1973
(OVER ALL) 1854-1973

APEA 0015 PUERTO DESEADO
47.55 63.04

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
94+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	1.3	2.2	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	.1
59/60	1.3	4.9	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	61	.4
57/58	19.0	18.7	8.6	1.4	.0	.0	.0	.0	.0	.0	.0	.0	181	1.1
55/56	26.4	31.4	21.8	4.6	.7	.0	.0	.0	.0	.0	.0	.0	568	3.4
53/54	28.8	22.4	23.4	12.2	1.8	.0	.1	.0	.0	.1	1.9	13.7	1123	6.7
51/52	18.9	13.4	24.7	22.2	3.2	.3	.3	.2	.1	.3	6.9	26.6	1455	8.7
49/50	4.3	4.2	12.7	32.1	16.8	3.0	.5	.2	1.3	3.3	19.2	28.3	1699	10.1
47/48	1.3	.4	2.2	19.7	31.1	11.8	2.1	1.2	2.7	13.4	31.1	17.7	1842	11.0
45/46	.6	.1	.4	7.1	38.6	50.6	27.3	12.4	18.9	39.3	31.5	3.2	3399	20.2
43/44	.0	.0	.2	.5	6.8	30.3	52.0	51.6	45.2	34.7	7.3	.2	1609	21.5
41/42	.0	.0	.4	.1	1.0	3.7	15.5	30.9	27.0	8.5	.7	.1	1403	8.4
39/40	.0	.0	.0	.0	.1	.1	1.9	3.0	4.6	.3	.1	.0	163	1.0
37/38	.0	.0	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	15	.1
35/36	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1172	1201	1254	1258	1364	1684	1824	1769	1432	1104	1436	1801	16799	100.0
MEAN	54.3	54.8	53.4	50.1	47.0	45.1	48.7	43.0	43.3	44.8	47.4	50.8	48.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1004	1003	1005	1003	1004	1004	1003	1003	1004	916
FEB	1007	1007	1002	1007	1008	1008	1005	1008	1007	747
MAR	1009	1008	1006	1009	1008	1007	1009	1008	1008	933
APR	1007	1007	1008	1006	1007	1007	1007	1007	1007	1003
MAY	1009	1010	1005	1010	1009	1007	1007	1008	1008	947
JUN	1007	1006	1009	1006	1006	1007	1009	1007	1007	1361
JUL	1009	1009	1011	1009	1009	1008	1010	1009	1009	1411
AUG	1009	1009	1003	1008	1008	1009	1004	1004	1008	1281
SEP	1008	1009	1005	1009	1010	1011	1007	1008	1009	990
OCT	1007	1007	1009	1007	1007	1005	1006	1006	1007	757
NOV	1005	1006	1007	1005	1006	1004	1005	1005	1005	1045
DEC	1005	1005	1004	1004	1005	1004	1006	1005	1005	906
ANN	1007	1007	1007	1007	1007	1007	1007	1007	1007	12317
OBS	1920	1694	211	1889	1945	2744	343	1671		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	978	985	991	998	1004	1009	1017	1020	1023
FEB	981	985	993	1001	1007	1013	1022	1023	1027
MAR	979	985	993	1002	1008	1019	1022	1026	1030
APR	980	984	990	1000	1007	1014	1022	1026	1031
MAY	976	980	987	1000	1008	1018	1027	1031	1034
JUN	978	982	988	999	1007	1015	1024	1028	1035
JUL	979	984	991	1002	1010	1016	1025	1032	1034
AUG	979	983	989	1000	1009	1017	1028	1033	1036
SEP	974	984	991	1003	1009	1015	1027	1030	1034
OCT	979	984	993	1001	1007	1013	1022	1027	1032
NOV	977	983	991	1000	1005	1012	1019	1024	1030
DEC	981	985	990	999	1005	1010	1019	1022	1024

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1927-1973

JANUARY

AREA 0016 MAGELLAN STR IT EAST
51.35 65.6N

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER PRZM	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WQ	SMOKE	HAZE
N	6.7	4.3	4.3	.0	.0	.0	.0	17.4	.0	.0	10.9	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0	4.3	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	2.8	5.6	.0	.0	.0	.0	.0	8.3	11.1	.0	2.8	.0	.0	.0
SW	4.6	.0	1.8	.0	.0	.0	.0	6.5	3.7	.0	.9	.0	.5	.0
W	1.7	.0	1.7	.0	.0	.0	.0	3.3	.0	.0	3.3	.0	1.2	.0
NW	.0	5.0	5.0	.0	.0	.0	.0	10.0	.0	.0	13.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.1	1.3	2.1	.0	.0	.0	.0	6.7	2.6	.0	4.6	.0	.3	.0
TOT OBS	104													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER PRZM	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG	FOG WQ	SMOKE	HAZE
0603	7.5	1.9	.0	.0	.0	.0	.0	9.4	1.9	.0	1.9	.0	.0	.0
0609	2.1	.0	2.1	.0	.0	.0	.0	4.2	2.1	.0	10.4	.0	.0	.0
12015	.0	.0	3.1	.0	.0	.0	.0	3.1	3.1	.0	3.4	.0	1.7	.0
18021	2.4	4.9	.0	.0	.0	.0	.0	7.3	.0	.0	2.4	.0	.0	.0
TOT PCT	3.0	1.3	2.0	.0	.0	.0	.0	6.3	2.3	.0	4.3	.0	.3	.0
TOT OBS	201													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	21
N	.4	3.0	4.3	1.4	.0	.0		11.2	14.8		13.2	20.7	11.2	6.7	4.1	9.1	7.1
NE	.4	1.7	1.4	1.7	.0	.0		5.2	14.9		6.7	.0	6.9	2.9	7.6	4.3	3.6
E	.0	.0	.6	.0	.0	.0		.6	13.8		1.2	.0	.0	.0	.0	.0	2.7
SE	.0	.2	.4	.0	.0	.0		.7	10.3		.0	.0	.0	.0	2.3	.0	1.8
S	.0	2.8	4.3	1.3	.0	.0		8.4	14.1		13.4	13.3	10.3	3.8	4.1	6.8	9.9
SW	1.1	6.3	14.9	3.0	1.6	.4		26.8	16.0		26.8	26.7	30.2	26.9	27.3	21.6	30.4
W	1.1	9.6	15.9	6.8	1.0	.0		33.8	16.1		23.6	19.0	25.0	23.4	47.7	39.8	32.1
NW	.0	6.2	4.8	.0	.1	.0		11.1	10.8		11.0	18.3	9.3	18.3	4.7	18.2	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALP	2.2	.0	.0	.0	.0	.0		2.2	.0		.0	.0	6.9	3.8	2.3	.0	3.6
TOT OBS	12	67	107	32	4	1	223		14.7		41	13	29	26	43	22	28
TOT PCT	9.3	29.8	47.6	14.2	2.7	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	15
N	.9	3.1	3.2	.0	.0		11.2	14.8	18.3	9.1	5.8	12.8	
NE	.4	2.8	1.6	.4	.0		5.2	14.9	4.9	5.0	6.3	4.1	
E	.0	.3	.2	.0	.0		.6	13.8	.9	.0	.0	1.3	
SE	.2	.4	.0	.0	.0		.7	10.3	.0	.0	1.3	1.0	
S	2.0	3.2	2.3	.9	.0		8.4	14.1	13.4	8.2	3.0	7.7	
SW	2.9	14.9	6.1	2.0	.9		26.8	16.0	26.8	26.8	23.4	26.5	
W	2.7	17.4	9.6	4.1	.0		33.8	16.1	23.6	19.0	43.0	35.7	
NW	2.9	6.9	1.2	.1	.0		11.1	10.8	12.9	13.4	9.2	8.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALP	2.2	.0	.0	.0	.0		2.2	.0	.0	5.9	1.3	2.0	
TOT OBS	32	119	39	17	2	223		14.7	56	33	61	49	
TOT PCT	14.2	51.1	26.2	7.6	.9		100.0		100.0	100.0	100.0	100.0	

JANUARY

PERIOD: (PRIMARY) 1972-1973
(OVER-ALL) 1922-1973AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.0	3.6	19.4	64.3	10.7	.0		1.8	15.3	100.0	56
06009	5.5	3.6	36.4	38.2	14.5	1.8		.0	15.3	100.0	59
12018	1.5	4.6	27.7	48.2	15.4	4.6		.0	15.3	100.0	65
18021	2.0	.0	36.7	40.8	16.3	4.1		.0	14.8	100.0	49
TOT	9	7	67	107	32	6		1	14.7		225
PCT	2.2	3.1	29.8	47.6	14.2	2.7		.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.9	.0	4.3	2.8		6.5
NE	.0	.0	3.4	7.4		7.2
E	.0	.0	1.4	.0		6.2
SE	.6	.0	.0	.0		2.0
S	2.6	1.1	9.1	1.1		4.5
SW	6.0	9.4	11.1	3.4		4.6
W	9.7	9.4	18.6	2.8		9.0
NW	3.7	1.1	9.7	1.7		4.5
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		3.0
TOT OBS	18	15	38	17	88	5.1
TOT PCT	20.9	17.0	43.2	19.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD CGVER	000	150	300	400	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
							149	299	599	999	1999	3499	4999	6499	7999			
N	.9	.0	4.3	2.8		6.5	.0	.0	.0	.0	4.3	1.1	.0	.0	.0	.9		1.7
NE	.0	.0	3.4	7.4		7.2	.0	.0	.0	1.1	1.4	.0	1.4	1.1	1.1	1.4		3.1
E	.0	.0	1.4	.0		6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.6
SE	.6	.0	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.6
S	2.6	1.1	3.1	1.1		4.5	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0		5.7
SW	6.0	9.4	11.1	3.4		4.6	.0	.0	.0	1.1	1.1	3.4	1.1	.0	1.1	.0		22.2
W	9.7	9.4	19.6	2.8		9.0	1.7	.0	.0	.9	1.1	.0	1.1	1.1	.0	1.1		20.9
NW	3.7	1.1	3.7	1.7		4.5	.6	.0	.0	.3	1.1	1.1	.0	.0	.0	.0		7.1
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		9.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0		2.3
TOT OBS	18	19	38	17		9.1	2	0	0	3	9	7	4	2	3	3		88
TOT PCT	20.5	17.0	43.2	19.3			2.3	.0	.0	3.4	10.2	8.0	4.5	2.3	2.3	3.4		65.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>9	>8	>7	>1/2	>1/4	>50YD	>0
>OR >5000	4.4	5.6	6.6	6.6	6.6	6.6	6.6	6.6
>OR >4000	6.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
>OR >3500	9.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2
>OR >2000	16.3	20.9	20.9	20.9	20.9	20.9	20.9	20.9
>OR >1000	17.0	30.8	31.9	31.9	31.9	31.9	31.9	31.9
>OR >600	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>OR >400	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>OR >150	24.2	34.1	35.2	35.2	35.2	35.2	35.2	35.2
>OR >0	24.2	34.1	35.2	35.2	35.2	35.2	37.4	47.4
TOTAL	22	31	32	32	32	32	34	34

TOTAL NUMBER OF OBS: 91

PCT FREQ NM <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.9	17.7	11.9	17.7	9.4	9.4	9.2	7.3	13.5	2.1	96

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

JANUARY

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VS&Y (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	1.6	
	TOT %	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	1.6	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	1.1	
	TOT %	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.5	
2<5	PCP	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	1.6	
	NO PCP	1.8	.5	.0	.0	.0	1.8	2.1	1.1	.0	.0	7.4	
	TOT %	1.8	.5	.0	.0	.0	2.6	2.9	1.1	.0	.0	8.9	
5<10	PCP	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
	NO PCP	4.2	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.3	24.7	
	TOT %	5.8	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.3	26.3	
10+	PCP	.0	.0	.0	.0	.5	.5	.0	.5	.0	.0	1.6	
	NO PCP	3.4	3.3	.5	.8	5.5	20.4	19.7	5.0	.0	1.6	60.0	
	TOT %	3.4	3.3	.5	.8	6.1	20.9	19.7	5.5	.0	1.6	61.6	
TOT OBS													190
TOT PCT		11.6	5.1	.7	.8	9.5	28.3	31.1	10.0	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VS&Y (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.8	.3	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	.0	.0	.0	.0	.8	.3	.0	.0	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.3	.8	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
	4-10	.3	.5	.0	.0	.0	1.8	.8	.5	.0	.0	3.7	
	11-21	1.1	.0	.0	.0	.0	.5	2.1	.5	.0	.0	4.2	
	22+	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	1.8	.5	.0	.0	.0	2.6	2.9	1.1	.0	.0	8.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
	4-10	1.3	.0	.0	.0	1.6	.3	2.6	1.6	.0	.0	7.4	
	11-21	3.3	1.3	.0	.0	1.6	3.7	2.6	.8	.0	.0	13.7	
	22+	1.2	.9	.0	.0	.0	.5	2.1	.0	.0	.0	4.7	
	TOT %	5.8	2.2	.4	.0	3.2	4.5	7.4	2.4	.0	.5	26.3	
10+	0-3	.5	.5	.0	.0	.0	.3	1.3	.0	.0	1.6	4.2	
	4-10	.3	1.3	.0	.3	1.7	4.6	5.5	2.6	.0	.0	16.3	
	11-21	2.6	.4	.3	.5	3.3	10.9	8.0	2.9	.0	.0	28.9	
	22+	.0	1.1	.0	.0	1.1	5.1	4.9	.0	.0	.0	12.1	
	TOT %	3.4	3.3	.3	.8	6.1	20.9	19.7	5.5	.0	1.6	61.6	
TOT OBS													190
TOT PCT		11.6	5.1	.7	.8	9.5	28.3	31.1	10.0	.0	2.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

TABLE 10

AREA 0016 MAGELLAN STRAIT EAST
51.33 65.8WPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	16.0	4.0	4.0	.0	.0	4.0	28.0	72.0	25
06009	4.2	.0	.0	8.3	12.5	12.5	.0	.0	4.2	8.3	50.0	50.0	24
12015	4.5	.0	.0	4.5	9.1	4.2	4.5	4.5	4.5	.0	36.4	63.6	22
18021	.0	.0	.0	.0	4.3	8.7	8.7	4.3	.0	4.3	30.4	69.6	23
TOT	7	0	0	3	10	7	4	2	2	4	34	60	94
PCT	2.1	.0	.0	3.2	10.6	7.4	4.3	2.1	2.1	4.3	36.2	63.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.9	15.4	15.0	57.7	52
06009	2.2	2.2	.0	8.7	30.4	56.5	46
12015	1.7	1.7	.0	8.6	29.3	58.6	58
18021	2.4	.0	.0	.0	17.1	80.5	41
TOT	3	2	1	17	51	123	197
PCT	3	1.0	.5	8.6	25.9	62.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	28.0	72.0	25
06009	4.3	4.3	13.0	39.1	47.8	23
12015	4.8	4.8	14.3	29.8	61.9	21
18021	.0	.0	.0	31.8	68.2	22
TOT	2	2	6	28	57	91
PCT	2.2	2.2	6.6	30.8	62.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.4	.0	.0	1.1	1.1	3	2.6
55/59	.5	.0	1.1	2.6	5.3	3.2	7.4	3.7	43	23.8
50/54	.0	.0	.5	2.1	12.7	12.7	11.6	2.1	79	41.8
45/49	.0	.0	.0	.0	3.7	10.1	11.1	5.8	58	30.7
40/44	.0	.0	.0	.0	.0	.0	.5	.5	2	1.1
TOTAL	1	0	3	10	41	49	60	25	189	100.0
PCT	.5	.0	1.6	5.3	21.7	25.9	31.7	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.9	.1	.0	.0	.0	.3	.8	.5	.0	.0
55/59	2.1	.7	.4	.0	.5	6.2	8.3	4.4	.0	1.1
50/54	6.1	2.1	.3	.0	3.7	8.9	16.1	3.6	.0	1.1
45/49	1.6	2.0	.0	.3	2.1	10.7	10.8	2.9	.0	.5
40/44	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0
TOTAL	10.7	4.9	.7	.3	6.9	26.6	36.0	11.4	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	59	58	58	52	46	42	47	52.3	60
06009	59	58	57	50	44	43	41	50.3	61
12015	61	60	57	50	46	41	41	50.8	71
18021	61	60	60	53	48	46	46	53.5	53
TOT	61	60	54	51	49	43	41	51.6	245

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	28.0	14.0	36.0	16.0	77	30		
06009	.0	.0	14.9	34.0	31.9	19.1	80	47		
12015	1.9	3.7	24.1	24.1	33.3	13.0	77	34		
18021	.0	18.2	20.5	29.5	27.3	4.3	72	44		
TOT	1	13	47	49	63	26	77	195		

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1922-1973

JANUARY

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.5	.0	1	.0	.5
9/10	.0	.0	.0	.0	1.1	1.1	4	.0	2.1
7/8	.0	.0	1.1	2.7	3.2	.0	13	.0	6.9
6	.0	.0	.0	2.7	1.6	.0	8	.0	4.3
5	.0	.0	2.7	3.7	1.1	.0	14	.0	7.4
4	.0	.5	3.2	3.7	1.1	.0	16	.5	8.0
3	.0	2.7	5.9	3.2	1.1	.0	24	1.1	11.7
2	.0	3.7	4.3	6.9	.5	.0	29	1.6	13.8
1	.0	2.1	7.4	.5	.0	.0	19	1.1	9.0
0	.0	3.2	2.7	.5	.0	.0	12	.0	6.4
-1	.0	1.6	4.3	1.1	.0	.0	13	.0	6.9
-2	.5	3.2	3.2	.5	.0	.0	14	.5	6.9
-3	.5	2.7	1.1	.0	.0	.0	8	.0	4.3
-4	.5	1.6	1.1	.0	.0	.0	6	.0	3.2
-5	.5	.0	.0	.0	.0	.0	1	.0	.5
-6	.0	.5	.0	.0	.0	.0	1	.0	.5
-7/-8	.5	1.6	.0	.0	.0	.0	4	.0	2.1
-9/-10	.5	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	6	44	69	48	19	2	188	4.8	179
PCT	3.2	23.4	38.7	25.5	10.1	1.1	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	1.9	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	.0	2.8	.0	.0	.0	2.8	.0	1.9	2.8	.0	.0	.0	4.7
3-4	.0	.0	1.9	1.4	.0	.0	3.3	.0	.0	.0	.5	.0	.0	2.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	3.8
7	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	6.4	3.3	.0	.0	11.6	1.9	3.8	2.8	6.1	.0	.0	14.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.84

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S							SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	3.3	.0	.0	.0	.0	3.3	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	.0	1.9	.0	.0	.0	1.7	.0	.0	7.5	.0	.0	.0	7.5
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	3.8	5.7	.3	.0	.0	9.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	1.9	.0	3.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.8	.0	.0	.0	7.1	.0	8.3	15.1	2.4	1.9	.0	27.8

W							NW							TOTAL	
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
41	1.9	.0	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	1.9
1-2	.0	1.9	1.4	.0	.0	.0	3.3	.0	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	1.9	9.7	3.3	.0	.0	10.8	.0	.0	3.8	.0	.0	.0	.0	3.8
5-6	.0	.0	.0	3.8	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	3.2	9.0	7.1	.0	.0	23.1	.0	1.9	6.1	.0	.0	.0	8.0	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT QBS
<1	11.3	11.3	.0	.0	.0	.0	22.6	
1-2	.0	3.8	18.9	.0	.0	.0	22.6	
3-4	.0	7.3	18.9	5.7	.0	.0	32.1	
5-6	.0	.0	.0	7.5	.0	.0	7.5	
7	.0	.0	3.8	3.8	1.9	.0	9.4	
8-9	.0	1.9	1.9	.0	.0	.0	3.8	
10-11	.0	.0	.0	1.9	.0	.0	1.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.3	26.5	43.4	18.9	1.9	.0	100.0	33

PERIOD: (OVER-ALL) 1950-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1937-1973
(OVER-ALL) 1921-1973

FEBRUARY

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

W. D DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.6	.0	.0	.0	.0	.0	.0	3.6	.0	.0	14.5	.0	.0	.0	81.8
NE	23.1	.0	.0	.0	.0	.0	.0	23.1	.0	.0	.0	.0	.0	.0	76.9
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	46.2	.0	.0	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0	15.4	38.5
S	9.3	.0	.0	.0	.0	.0	.0	9.3	16.3	.0	.0	.0	.0	.0	74.4
SW	3.5	1.7	.0	.0	.0	.0	.0	7.2	.4	.0	1.7	.0	.0	.0	90.7
W	3.2	.0	1.8	.0	.0	.0	.0	3.0	1.8	.0	3.6	.0	.0	.0	89.6
NW	8.4	8.4	4.2	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0	.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	7.3	1.7	1.1	.0	.0	.0	.0	10.1	1.7	.0	2.8	.0	.0	.6	84.8
TOT OBS	178														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.6	1.8	1.8	.0	.0	.0	.0	7.1	1.8	.0	3.6	.0	.0	1.8	85.7
08109	4.9	4.9	2.4	.0	.0	.0	.0	12.2	2.4	.0	2.4	.0	.0	.0	82.9
12019	11.4	.0	.0	.0	.0	.0	.0	11.4	.0	.0	2.3	.0	.0	.0	86.4
18021	9.3	.0	.0	.0	.0	.0	.0	9.3	2.3	.0	2.3	.0	.0	.0	86.0
TOT PCT	7.1	1.6	1.1	.0	.0	.0	.0	9.8	1.6	.0	2.7	.0	.0	.5	85.3
TOT OBS	184														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	1.9	4.6	.0	.0	.0		7.0	12.0		7.1	15.0	12.5	8.7	5.5	.0	2.7	5.9
NE	.5	.5	1.8	.5	.0	.0		3.3	13.0		5.8	.0	.0	2.2	4.7	5.9	4.5	.0
E	.0	.4	.8	.0	.0	.0		1.1	11.6		1.6	.0	3.8	.0	.0	4.4	.0	.0
SE	.0	1.1	1.7	.5	.0	.0		3.3	15.8		.0	5.0	6.3	4.3	3.1	7.4	3.6	.0
S	.0	3.1	3.2	.0	.0	.0		6.3	10.8		3.2	5.0	10.0	7.6	6.3	4.4	11.6	.0
SW	.0	8.4	15.7	6.5	2.2	.0		32.8	17.0		35.3	25.8	18.8	29.3	36.7	25.0	44.6	39.7
W	.0	.7	17.0	5.2	1.4	.0		31.3	16.8		28.8	41.3	28.8	32.6	28.9	39.7	25.9	30.9
NW	.0	5.5	6.4	1.5	.5	.0		14.9	14.4		17.3	10.0	20.0	15.2	14.8	13.2	7.1	23.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	2	98	100	28	8	0	196	196			37	20	20	23	32	17	28	17
TOT PCT	1.0	24.6	51.0	14.3	4.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.5	5.7	.6	.0	.0				9.7	10.5	3.6	3.9
NE	.5	2.0	.8	.0	.0				3.8	1.2	5.1	2.8
E	.4	.4	.0	.0	.0				1.1	1.7	1.5	.0
SE	1.1	.5	1.1	.5	.0				1.7	5.2	4.6	2.2
S	1.1	4.2	.9	.0	.0				4.2	8.7	5.6	7.2
SW	3.2	16.2	8.9	3.4	1.0				21.4	24.4	32.7	42.8
W	.8	18.0	7.8	4.7	.0				31.3	30.8	32.7	27.8
NW	.0	10.6	3.3	1.0	.0				14.8	17.4	14.3	13.3
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0				.0	.0	.0	.0
TOT OBS	15	113	47	19	2	196		19.6	56	43	49	45
TOT PCT	7.7	57.7	24.0	9.7	1.0			100.0	100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	.0	1.7	27.1	54.2	10.2	6.8	.0	15.3	100.0	39
06009	.0	.0	34.9	48.8	11.6	4.7	.0	15.6	100.0	43
12015	.0	.0	32.7	46.9	18.4	2.0	.0	15.7	100.0	49
18021	.0	2.2	24.4	53.3	17.8	2.2	.0	15.8	100.0	45
TOT	0	2	58	100	28	8	0	15.6		196
PCT	.0	1.0	29.6	51.0	14.3	4.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.4	.0	2.9	2.9		6.9
NE	.0	1.7	2.5	1.3		5.7
E	.6	.0	.6	.4		4.6
SE	1.1	.0	.0	3.4		6.3
S	1.7	.8	2.9	2.3		5.4
SW	3.5	4.4	19.3	8.0		9.4
W	5.0	1.5	14.5	4.8		9.4
NW	1.7	1.7	4.8	3.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	19	12	56	32	119	9.6
TOT PCT	16.0	10.1	47.1	26.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999			
N	.0	.0	.8	.4	.0	.0	1.5	.4	.0	.0	2.5	
NE	.0	.0	.0	1.3	.8	.0	.0	.4	.0	.0	2.9	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
SE	.0	.0	.0	.8	.8	1.7	.0	.0	.0	.0	1.3	
S	.0	.0	.0	.0	1.5	.0	1.9	.6	.0	.0	4.2	
SW	.0	.0	.0	3.6	2.9	3.6	.4	.2	.8	1.1	24.6	
W	.0	.0	.0	.6	1.5	4.0	1.4	.0	.0	1.5	16.8	
NW	.0	.0	.0	.0	.8	.8	1.1	.8	.0	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	8	10	12	7	3	1	3	74	119
TOT PCT	.0	.0	.8	6.7	8.4	10.1	5.9	2.5	.8	2.5	62.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>5000	>0
>4500	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>3000	4.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7
>1500	8.1	11.4	11.4	11.4	11.4	11.4	11.4	11.4
>1000	12.2	21.1	21.1	21.1	21.1	21.1	21.1	21.1
>500	17.9	29.3	29.3	29.3	29.3	29.3	29.3	29.3
>300	22.0	34.1	35.8	35.8	35.8	35.8	35.8	35.8
>150	22.0	35.0	36.6	36.6	36.6	36.6	36.6	36.6
>0	22.0	35.0	36.6	36.6	36.6	36.6	36.6	36.6
TOTAL	27	43	45	45	45	45	45	45

TOTAL NUMBER OF OBS: 123

PCT FREQ NM <5/8: 63.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	9.6	14.1	19.3	10.4	10.4	8.1	4.4	5.2	18.5	.0	123

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973AREA 0016 MAGELLAN STRAIT EAST
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
2<5	PCP	.0	.0	.0	.6	.0	.1	.4	.0	.0	.0	.0	1.1
	NO PCP	.0	.0	.0	.0	.0	.0	2.0	.8	.0	.0	.0	2.8
	TOT %	.0	.0	.0	.6	.0	.1	2.4	.8	.0	.0	.0	3.9
5<10	PCP	.0	.6	.0	1.1	.6	1.7	1.1	1.1	.0	.0	.0	6.2
	NO PCP	1.7	.4	.8	.7	2.0	6.2	14.0	3.4	.0	.0	.0	29.2
	TOT %	1.7	1.0	.8	1.8	2.5	7.9	15.2	4.5	.0	.0	.0	35.4
10+	PCP	.3	.3	.0	.0	.0	.6	.0	1.7	.0	.0	.0	2.6
	NO PCP	4.6	2.4	.4	1.3	3.5	24.7	12.9	6.3	.0	.0	.0	56.2
	TOT %	4.9	2.7	.4	1.3	3.5	25.3	12.9	6.3	.0	.0	.0	59.0
TOT OBS													178
TOT PCT		7.7	3.7	1.3	3.7	6.0	33.3	31.0	13.3	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
	TOT %	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	2.4	.8	.0	.0	.0	3.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	2.4	.8	.0	.0	.0	3.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.6	.0	.0	1.4	2.8	4.8	.6	.0	.0	.0	10.1
	11-21	1.7	.4	.8	1.8	1.1	3.7	7.3	3.4	.0	.0	.0	20.2
	22+	.0	.0	.0	.0	.0	1.4	3.1	.6	.0	.0	.0	5.1
	TOT %	1.7	1.0	.8	1.8	2.5	7.9	15.2	4.5	.0	.0	.0	25.4
10+	0-3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
	4-10	1.3	.3	.4	1.3	2.0	9.1	1.4	3.5	.0	.0	.0	15.2
	11-21	2.8	1.3	.0	.0	1.3	12.6	7.9	2.8	.0	.0	.0	29.2
	22+	.0	.6	.0	.0	.0	7.6	3.7	1.7	.0	.0	.0	13.3
	TOT %	4.9	2.7	.4	1.3	3.3	25.3	12.9	8.0	.0	.0	.0	59.0
TOT OBS													178
TOT PCT		7.7	3.7	1.3	3.7	6.0	33.3	31.0	13.3	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

APEA 0016 MAGELLAN STRAIT EAST
51.83 66.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	2.7	10.8	8.1	8.1	5.4	.0	8.1	43.2	56.8	37
0600	.0	.0	3.6	7.1	3.6	7.1	10.7	3.6	.0	.0	39.7	64.3	28
1200	.0	.0	.0	9.7	6.5	9.7	.0	.0	.0	.0	25.8	74.2	31
1800	.0	.0	.0	5.7	8.6	11.4	2.9	.0	2.9	.0	31.4	68.6	33
TOT	0	0	1	8	10	12	7	3	1	3	45	86	131
PCT	.0	.0	.8	6.1	7.6	9.2	5.3	2.3	.8	2.3	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	1.8	.0	.0	5.4	37.5	55.4	94
0600	.0	2.4	2.4	4.5	41.5	48.8	41
1200	.0	.0	.0	2.3	36.4	61.4	44
1800	.0	.0	.0	2.3	25.6	72.1	43
TOT	1	1	1	7	65	109	184
PCT	.5	.5	.5	3.8	35.3	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	.0	2.9	42.9	54.3	35
0600	.0	.0	4.0	12.0	28.0	23
1200	.0	.0	10.3	17.2	72.4	29
1800	.0	.0	5.9	24.3	67.6	34
TOT	0	1	9	36	78	123
PCT	.0	.8	7.3	29.3	63.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.6	.6	.0	.0	.6	3	1.7
55/59	.0	.0	.6	1.1	2.3	4.6	2.9	.0	20	11.4
50/54	.0	.0	.6	4.0	12.0	8.6	17.7	6.9	88	49.1
45/49	.0	.0	.6	9.1	11.4	9.7	4.6	.0	62	34.4
40/44	.0	.0	.0	.0	.6	.6	1.1	.0	4	2.3
TOTAL	0	0	1	11	42	44	34	23	179	100.0
PCT	.0	.0	.4	6.3	24.0	25.1	30.2	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.4	.9	.4	.0	.0	.0
55/59	.4	2.4	.0	.0	.0	3.1	2.6	2.9	.0	.0
50/54	4.1	.3	.9	.9	.9	15.4	18.9	7.9	.0	.0
45/49	2.4	.1	.4	2.9	4.1	14.3	8.7	2.4	.0	.0
40/44	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0
TOTAL	7.0	2.9	1.3	3.7	5.4	34.9	31.7	13.1	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	59	58	57	51	47	46	46	51.3	64
0600	59	58	54	49	43	43	43	49.2	46
1200	62	61	57	50	46	45	45	50.6	50
1800	42	61	58	53	46	44	44	52.4	47
TOT	52	60	57	51	46	44	43	50.9	207

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	7.0	21.1	22.8	36.8	12.3	77		37	
0600	.0	.0	18.6	20.9	37.2	23.3	81		49	
1200	.0	.0	26.8	31.7	29.3	12.2	78		41	
1800	.0	20.0	30.0	25.0	17.5	7.5	71		40	
TOT	0	12	43	45	56	25	77		181	

FEBRUARY

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.4W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	TOT	h FOG	WD FOG
11/13	.0	.0	.0	.0	.6	.6	2	.0	1.2
9/10	.0	.0	.0	.6	.0	.0	1	.0	.6
7/8	.0	.0	.0	2.9	1.2	.0	7	.0	4.1
6	.0	.0	.0	.6	1.2	.0	3	.0	1.7
5	.0	.0	1.2	2.9	.6	.0	5	.0	4.7
4	.0	.0	5.8	2.9	1.2	.0	17	1.2	8.7
3	.0	.0	7.6	4.1	.6	.0	21	1.2	11.0
2	.0	.0	6.4	2.3	.6	.0	16	.6	8.7
1	.0	1.7	7.0	1.2	1.2	.0	19	.0	11.0
0	.0	4.1	4.7	2.3	.0	.0	19	.0	11.0
-1	.0	5.2	7.6	.0	.0	.0	22	.0	12.8
-2	.0	4.7	1.7	.6	.0	.0	12	.0	7.0
-3	.6	2.9	.6	.0	.0	.0	7	.0	4.1
-4	.6	5.2	1.2	.0	.0	.0	12	.0	7.0
-5	.6	2.3	.0	.0	.0	.0	5	.0	2.9
-7/-8	.6	.0	.0	.0	.0	.0	1	.0	.6
TOTAL	4	45	75	35	12	1	172	5	167
PCT	2.3	26.2	43.6	20.3	7.0	.6	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	2.4	.0	.0	.0	3.5	.0	.0	3.1	1.4	.0	.0	4.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	4.3	.0	.0	.0	4.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	4.3	1.4	.0	.0	5.9

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

MARCH

AREA 0016 MAGELLAN STRAIT EAST
51.75 66.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.5	.0	3.9	.0	.0	.0	.0	8.4	.0	.0	9.0	.0	2.6	.0	80.0
NE	2.4	.0	4.8	.0	.0	.0	.0	7.1	9.5	.0	23.8	.0	.0	.0	99.5
E	30.0	.0	.0	.0	.0	.0	.0	30.0	.0	.0	.0	.0	.0	.0	70.0
SE	14.8	.0	.0	.0	.0	.0	.0	14.8	3.7	.0	14.8	.0	.0	.0	66.7
S	3.3	.0	.0	.0	.0	.0	.0	3.3	10.0	.0	.0	.0	.0	.0	86.7
SW	1.1	2.3	.0	.0	.0	.0	.0	3.4	.6	.0	.0	.0	.0	.0	96.0
W	2.3	.0	.0	.0	.0	.0	.0	2.3	.9	1.2	2.3	.0	.0	.0	93.3
NW	7.0	.0	.0	.0	.0	.0	.0	7.0	.8	.0	9.4	.0	.0	.0	82.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
TOT PCT	3.8	.4	1.3	.0	.0	.0	.0	5.4	1.7	.4	9.0	.0	.4	.0	87.1
TOT OBS:	240														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.9	.0	1.5	.0	.0	.0	.0	4.4	.0	.0	2.9	.0	.0	.0	92.6
0600	6.0	.0	1.6	.0	.0	.0	.0	7.9	1.6	1.6	8.3	.0	.0	.0	82.5
1200	1.6	.0	1.6	.0	.0	.0	.0	3.2	1.6	.0	8.1	.0	.0	.0	87.1
1800	3.8	1.9	.0	.0	.0	.0	.0	5.8	3.8	.0	1.9	.0	1.9	.0	86.5
TOT PCT TOT OBS:	3.7 245	.4	1.2	.0	.0	.0	.0	5.3	1.6	.4	4.9	.0	.4	.0	87.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.8	3.8	7.4	2.1	.0	.0		16.3	13.9		15.0	21.1	16.3	13.0	15.5	19.6	12.8	21.4
NE	.0	1.0	2.8	.4	.0	.0		4.2	13.8		4.0	7.9	5.0	4.0	4.5	.0	1.8	7.1
E	.0	.3	.9	.4	.0	.0		1.0	18.0		.0	.0	.0	.0	3.5	.0	1.8	.0
SE	.0	.7	1.6	.4	.0	.0		2.7	16.1		.5	.0	.6	4.0	8.5	.0	2.4	.0
S	.0	2.9	1.7	1.6	.0	.0		6.1	13.7		9.5	5.3	11.3	2.0	1.5	7.1	7.3	.0
SW	.2	2.1	8.5	6.5	1.0	.0		18.3	19.7		20.5	15.8	23.8	11.0	16.5	17.9	17.1	21.4
W	.6	7.8	13.5	12.6	.9	.0		35.5	18.8		35.0	42.1	23.8	44.0	34.0	46.4	37.8	33.9
NW	.0	2.8	4.1	2.1	.1	.0		14.0	15.9		15.5	2.6	11.9	17.0	16.0	8.9	16.5	16.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		.0	5.3	7.5	.0	.0	.0	2.4	.0
TOT OBS	9	99	114	66	5	0	253		16.9		50	19	40	25	30	14	41	14
TOT PCT	3.6	23.3	45.1	24.1	2.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WHD DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		7-16	17-27	28-40	41+				00	03	06	09	12	15	18	21
N	2.2	7.6	6.1	.4	.0		16.3	13.9	16.7	16.9	16.4	15.0				
NE	.2	1.4	2.6	.0	.0		4.2	13.8	5.1	4.6	3.5	3.2				
E	.0	.6	.0	.4	.0		1.0	18.0	.0	.0	2.7	1.4				
SE	.1	1.4	1.2	.0	.0		2.7	16.1	.4	1.9	6.6	1.8				
S	1.9	2.7	.7	.9	.0		6.1	13.7	8.3	7.7	2.7	5.5				
SW	1.4	6.6	6.4	3.4	.5		18.3	19.7	19.2	18.8	16.8	14.2				
W	2.2	10.8	17.9	4.3	.3		35.5	18.8	37.0	31.5	36.7	34.8				
NW	.8	7.7	4.2	1.3	.0		14.0	15.9	12.0	13.8	14.5	16.4				
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0				
CALM	2.0	.0	.0	.0	.0		2.0	.0	1.4	4.6	.0	1.8				
TOT OBS	27	98	99	27	2	253		16.9	69	65	64	55				
TOT PCT	10.7	38.7	39.1	10.7	.8		100.0		100.0	100.0	100.0	100.0				

MARCH

PERIOD: (PRIMARY) 1932-1973
(COVER-ALL) 1921-1973

AREA 0010 MAGELLAN STRAIT EAST
91.75 86.25

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.4	2.0	24.0	43.3	23.2	4.3	.0	16.8	100.0	69
0400	4.0	.0	20.0	38.3	36.9	.0	.0	17.9	100.0	69
1700	.0	.0	20.0	46.9	26.0	.0	.0	16.5	100.0	64
1800	1.0	3.0	21.8	52.7	19.4	3.0	.0	16.1	100.0	59
TOT	5	5	59	114	86	3	0	16.9		233
PCT	2.0	1.0	23.3	45.1	26.1	2.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (HEIGHTS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-9	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	1.2	.5	9.4	6.7		6.9
NE	.0	.0	.5	5.7		5.7
E	.0	.0	.0	.0		0.0
SE	.0	.0	2.1	1.0		9.9
S	2.0	.0	4.1	.5		4.3
SW	8.4	2.0	6.0	.0		9.5
W	10.7	12.0	10.4	2.7		9.9
NW	2.0	1.1	6.4	6.7		9.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		6.2
TOT OBS	44	20	60	31	155	6.6
TOT PCT	27.0	17.2	36.8	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >400)
AND OCCURRENCE OF MM <400 BY WIND DIRECTION

000	100	300	600	1000	2000	3500	5000	6500	8000	MM <400	TOTAL
100	200	500	900	1900	3900	4900	6400	7900		ANY MGT	OBS
.0	.4	1.1	.0	2.3	1.7	.0	1.7	1.1	.0	3.4	
.0	.0	.2	.0	.2	.0	.0	.2	.2	.0	1.7	
.0	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	
.0	.0	.2	.7	1.2	.8	.7	.0	.0	.0	1.8	
.0	.0	.9	.5	1.1	.0	1.7	.6	.0	.0	3.1	
.0	.0	.0	.0	3.6	2.0	.0	.0	.0	.0	13.0	
.0	.0	.0	.0	1.7	1.1	.0	.5	.0	1.8	20.8	
.0	.0	.0	.0	.0	.2	3.1	.3	.0	.0	8.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
.0	.2	.3	.4	.19	.10	.8	.8	.2	.4	103	
.0	1.7	1.8	2.9	11.7	6.1	4.0	3.7	1.2	2.5	64.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (MM >400) AND VSBY (MM)

CEILING (FEET)	VSBY (MM)				VSBY (MM)				VSBY (MM)			
	>10	>25	>32	>31	>1/2	>1/4	>5000	>5000	>10	>25	>32	>31
> OR >4000	2.4	2.4	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	3.0	3.0
> OR >3500	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	5.0	5.0
> OR >3000	6.4	10.2	11.4	11.4	11.4	11.4	11.4	11.4	6.4	10.2	11.4	11.4
> OR >2500	12.7	16.5	17.3	17.3	17.3	17.3	17.3	17.3	12.7	16.5	17.3	17.3
> OR >2000	19.0	27.7	28.9	28.9	28.9	28.9	28.9	28.9	19.0	27.7	28.9	28.9
> OR >1500	21.1	30.1	31.3	31.3	31.3	31.3	31.3	31.3	21.1	30.1	31.3	31.3
> OR >1000	22.3	31.3	32.1	32.1	32.1	32.1	32.1	32.1	22.3	31.3	32.1	32.1
> OR >500	22.3	31.3	34.3	34.3	34.3	34.3	34.3	34.3	22.3	31.3	34.3	34.3
> OR >0	22.3	31.3	34.3	34.3	34.3	34.3	34.3	34.3	22.3	31.3	34.3	34.3
TOTAL	37	37	37	37	37	37	37	37	37	37	37	37

TOTAL NUMBER OF OBS: 100

PCT FREQ MM <400: 65.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (HEIGHTS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
19.7	14.0	12.0	11.0	8.4	3.0	8.4	10.1	14.0	.0	170

PERIOD: (PRIMARY) 1932-1973
(OVER-ALL) 1921-1973

MARCH

AREA 0016 MAGELLAN STRAIT EAST
51.75 66.2W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.0	.0	.0	.0	.4	.0	.0	.0	.8	
1/2<1	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
	TOT %	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
5<10	PCP	.7	.0	.0	.0	.2	.0	.0	.5	.0	.4	2.9	
	NO PCP	5.6	1.6	.3	.5	1.8	2.3	8.9	4.3	.0	.4	25.7	
	TOT %	6.3	1.6	.3	.5	2.0	3.0	8.9	4.9	.0	.8	28.3	
10+	PCP	.4	.1	.3	.4	.0	.0	.0	.4	.0	.0	1.7	
	NO PCP	6.5	1.6	.0	1.9	4.3	15.1	26.1	7.8	.0	1.3	64.6	
	TOT %	7.0	1.7	.3	2.3	4.3	15.1	26.1	8.2	.0	1.3	66.2	
TOT OBS		237											
TOT PCT		16.1	4.2	.6	2.8	6.3	18.7	35.5	13.5	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.4	.0	.0	.0	.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.4	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	11-21	1.2	.1	.0	.0	.0	.0	.0	.4	.0	.0	1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.2	.1	.0	.0	.0	.6	.2	.4	.0	.0	2.5	
5<10	0-3	.4	.0	.0	.0	.0	.4	.0	.0	.0	.8	1.7	
	4-10	2.4	.3	.3	.1	.9	.6	2.1	.7	.0	.0	7.6	
	11-21	2.5	.8	.0	.4	.8	1.3	4.2	3.4	.0	.0	13.5	
	22+	.9	.4	.0	.0	.2	1.1	2.1	.7	.0	.0	5.5	
	TOT %	6.3	1.6	.3	.5	2.0	3.0	8.9	4.9	.0	.8	28.3	
10+	0-3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	
	4-10	2.5	.7	.0	.6	1.9	.7	3.9	2.2	.0	.0	12.7	
	11-21	2.7	.9	.3	1.3	.9	7.4	10.2	4.4	.0	.0	28.3	
	22+	1.3	.0	.0	.4	1.5	7.0	11.9	1.6	.0	.0	23.6	
	TOT %	7.0	1.7	.3	2.3	4.3	15.1	26.1	8.2	.0	1.3	66.2	
TOT OBS		237											
TOT PCT		16.1	4.2	.6	2.8	6.3	18.7	35.5	13.5	.0	2.1	100.0	

PERIOD: APRIL 1930-1973
COVER-ALL: 1921-1973

WFO

AREA CODE: MAGELLAN STR. ST. POST
41.75 66.24

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	100	200	300	400	500	600	700	800	900	1000	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
0000Z	.0	2.5	2.5	2.5	7.5	7.5	2.5	.0	.0	7.5	32.5	67.5	40	
0600Z	.0	2.2	.0	4.4	15.6	4.4	8.9	4.4	.0	7.5	42.2	57.8	43	
1200Z	.0	.0	2.3	2.3	11.4	4.3	4.3	4.3	2.3	.0	31.8	68.2	44	
1800Z	.0	.0	2.4	.0	9.5	7.1	2.4	4.8	2.4	.0	28.6	71.4	42	
TOT PCT	.0	1.2	1.6	2.3	11.1	5.8	4.7	3.3	1.7	2.7	33.9	66.1	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	1.5	1.4	1.5	32.4	63.2	68
0600Z	1.6	.0	.0	.0	25.5	62.9	67
1200Z	1.6	3.3	.0	1.6	26.2	67.2	61
1800Z	.0	2.0	.0	7.8	19.7	74.5	91
TOT PCT	.8	1.7	.4	2.5	26.1	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ 4000+	NM <5/8 AND 5+	TOTAL OBS
0000Z	.0	5.1	7.7	25.6	66.7	39
0600Z	.0	2.4	7.1	34.7	57.1	42
1200Z	.0	2.3	6.8	25.0	68.2	44
1800Z	.0	2.4	4.9	24.4	70.7	41
TOT PCT	.0	3.0	6.6	27.7	65.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.4	.0	.0	3.4	2.1	.0	10	6.8
50/54	.0	.0	.0	1.7	5.1	11.5	27.0	8.1	108	46.0
45/49	.0	.0	.4	3.5	6.5	16.6	10.8	.0	98	41.7
40/44	.0	.0	.0	.0	.0	3.0	2.1	.4	13	3.5
TOTAL	.0	.0	1	6	25	62	96	43	235	100.0
PCT	.0	.0	.4	2.6	10.6	26.4	40.9	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CAL
1.4	.1	.0	.1	.3	.3	2.0	2.6	.0	.0
8.9	2.4	.7	1.0	3.0	6.2	14.9	7.1	.0	1.7
4.7	1.5	.3	1.4	2.9	10.5	19.0	5.0	.0	.4
.0	.0	.0	.0	.2	1.5	3.8	.0	.0	.0
15.0	4.0	1.1	2.4	6.4	18.5	35.7	14.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEC F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	58	57	55	50	44	42	47	50.0	68
0600Z	56	55	53	49	43	40	40	48.6	70
1200Z	55	54	54	50	45	40	40	49.6	69
1800Z	59	58	54	50	44	41	41	50.4	56
TOT	59	58	55	50	44	41	40	49.6	263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

WDIR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	3.1	17.2	34.4	29.7	15.6	79	64
0600Z	.0	.0	8.5	14.3	35.6	20.6	84	63
1200Z	.0	1.6	1.6	28.6	49.7	19.0	83	63
1800Z	.0	8.0	14.0	28.0	30.0	20.0	79	50
TOT	0	7	25	63	100	45	81	240

MARCH

PERIOD: (PRIMARY) 1922-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.7S 66.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8 AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	200 399	300 499	400 599	500 699	600 799	700 899	800 999	900+ 1000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	.0	2.5	2.5	2.5	7.5	7.5	2.5	.0	.0	7.5	32.5	67.5	40
0600	.0	2.2	.0	4.4	15.6	4.4	8.9	4.4	.0	2.2	42.2	57.8	45
1200	.0	.0	2.3	2.3	11.4	4.5	4.5	4.5	2.3	.0	31.8	68.2	44
1800	.0	.0	2.4	.0	9.5	7.1	2.4	4.8	2.4	.0	28.6	71.4	42
TOT	0	2	3	4	19	10	8	6	2	4	58	113	171
PCT	.0	1.2	1.6	2.3	11.1	5.6	4.7	3.3	1.2	2.3	33.9	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	1.5	1.4	1.5	32.4	63.2	68
0600	1.6	.0	.0	.0	35.5	62.9	62
1200	1.6	3.3	.0	1.6	26.2	67.2	61
1800	.0	2.0	.0	7.8	19.7	74.5	51
TOT	2	4	1	6	68	161	242
PCT	.8	1.7	.4	2.5	28.1	66.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NM >4/8 BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	5.1	7.7	25.6	66.7	39
0600	.0	2.4	7.1	35.7	57.1	42
1200	.0	2.3	6.8	25.0	68.2	44
1800	.0	2.4	4.9	24.4	70.7	41
TOT	0	9	11	46	109	166
PCT	.0	3.0	6.6	27.7	65.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/39	.0	.0	.4	.9	.0	3.4	2.1	.0	16	6.8
50/54	.0	.0	.0	1.3	5.1	11.3	20.0	8.1	108	46.0
45/49	.0	.0	.0	.4	5.5	6.5	14.6	10.6	98	41.7
40/44	.0	.0	.0	.0	.0	3.0	2.1	.4	13	5.5
TOTAL	0	0	1	6	28	62	96	45	235	100.0
PCT	.0	.0	.4	2.6	10.6	26.4	40.9	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CAL 4
33/39	1.6	.1	.0	.1	.3	.3	2.0	2.6	.0	.0
50/54	4.9	2.4	.7	1.0	3.0	6.2	14.9	7.1	.0	1.7
45/49	4.7	1.9	.3	1.4	2.9	10.5	15.0	5.0	.0	.6
40/44	.0	.0	.0	.0	.2	1.3	3.8	.0	.0	.0
TOTAL	15.0	4.0	1.1	2.4	6.4	18.5	35.7	14.7	.0	2.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	58	57	55	50	44	42	42	50.0	68
0600	58	55	52	49	43	40	40	48.6	70
1200	58	54	54	50	45	40	40	47.6	69
1800	58	58	50	50	44	41	41	50.4	56
TOT	58	52	55	50	44	41	40	49.6	263

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	3.1	17.2	34.4	29.7	13.6	79			66
0600	.0	.0	5.5	14.3	55.6	20.6	84			63
1200	.0	1.6	1.6	28.6	49.2	19.0	83			63
1800	.0	8.0	14.0	28.0	30.0	20.0	79			50
TOT	0	7	25	63	100	45	81			240

AREA 0016 MAGELLAN STRAIT EAST
51.78 06.2W

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
#1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.8	.8	.0	.0	.0	1.6
5-6	.0	.8	.0	.0	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.0	.0	1.0	.0
10-11	.0	.0	.0	.8	.0	.8	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	.8	2.8	.0	.0	5.6

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
#1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.0	.0	.0	.0	.0	2.0
3-4	.0	2.0	.0	.0	.0	.0	4.0
5-6	.0	.0	4.0	10.0	.0	.0	14.0
7	.0	.0	2.0	4.0	.0	.0	6.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	13.0	14.0	.0	.0	27.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
#1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	3.0	2.0	.0	.0	5.0
7	.0	.0	.0	2.0	.0	.0	2.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	9.0	4.0	.0	.0	13.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
#1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	2.0	.0	.0	.0	.0	2.0
5-6	.0	.0	3.0	2.0	.0	.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

NET	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT GSS
41	3.8	1.9	.0	.0	.0	.0	3.8	
1-2	1.9	8.7	2.9	.0	.0	.0	19.5	
3-4	1.0	5.8	21.2	9.8	.0	.0	39.7	
5-6	.0	1.0	10.6	11.3	.0	.0	23.1	
7	.0	.0	4.8	9.4	1.8	.0	15.4	
8-9	.0	.0	1.9	2.9	.0	.0	4.8	
10-11	.0	.0	1.0	2.9	.0	.0	3.8	
12	.0	.0	.0	.0	.0	.0	.0	
12-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-84	.0	.0	.0	.0	.0	.0	.0	
85+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	17.3	42.3	32.7	1.8	.0	100.0	104

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

APRIL

AREA 0016 MAGELLAN STRAIT EAST
51.4S 65.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	.0	.0	7.3	.0	.0	.0	.0	7.3	.0	.0	7.3	.0	.0	.0	85.5
NE	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	16.7	.0	.0	.0	50.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
SE	.0	.0	15.4	.0	.0	.0	.0	15.4	.0	.0	7.7	.0	.0	.0	76.9
S	.0	4.3	8.7	.0	4.3	.0	.0	13.0	.0	.0	4.3	.0	.0	.0	82.6
SW	2.6	1.3	1.3	.0	3.8	.0	.0	7.7	.0	.0	3.1	.0	.0	.0	87.2
W	.0	2.9	3.8	.0	.0	.0	.0	6.4	.0	.0	6.4	.0	.0	.0	87.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	.0	.0	92.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1	44.4	11.1	.0	.0	.0	.0	59.6	.0	.0	.0	.0	.0	.0	44.4
TOT PCT	2.1	4.1	4.1	.0	1.4	.0	.0	10.3	.0	.0	7.6	.0	.0	.0	82.1
TOT OBS	145														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	2.1	6.4	4.3	.0	4.3	.0	.0	14.9	.0	.0	8.5	.0	.0	.0	76.6
0600Z	2.9	.0	3.8	.0	.0	.0	.0	8.8	.0	.0	11.8	.0	.0	.0	79.4
1200Z	.0	3.4	2.7	.0	.0	.0	.0	8.1	.0	.0	3.4	.0	.0	.0	86.3
1800Z	6.9	3.4	3.4	.0	.0	.0	.0	10.3	.0	.0	3.4	.0	.0	.0	86.2
TOT PCT TOT OBS	2.7 147	4.1	4.1	.0	1.4	.0	.0	10.9	.0	.0	7.5	.0	.0	.0	81.6

TABLE 3

PERCENT-FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-5	6-10	11-21	22-33	34-47	48+					00	06	09	12	15	18	21	
N	.3	.0	8.0	1.2	.0	.0		10.1	19.2		14.3	.0	12.5	7.7	5.7	11.1	10.2	17.9
NE	1.2	1.8	1.3	.0	.0	.0		4.2	8.9		6.4	3.1	.0	.0	2.9	2.8	9.1	7.1
E	.0	2.6	5.1	.0	.0	.0		8.3	12.6		9.3	19.6	8.3	15.4	7.9	19.4	4.9	14.3
SE	1.2	3.2	.6	.0	.0	.0		5.0	6.9		5.3	.0	.0	.0	2.9	22.2	6.9	14.3
S	.6	3.8	2.9	.0	.0	.0		7.3	9.2		7.2	9.4	9.4	7.7	3.7	11.1	9.1	.0
SW	.6	8.0	8.9	5.1	3.8	.0		23.1	19.3		26.3	12.8	29.2	15.4	27.1	11.1	27.3	14.3
W	2.9	6.4	7.3	6.0	.6	.6		23.8	16.4		22.4	35.7	32.3	26.9	28.6	.0	17.0	10.7
NW	.3	4.7	6.1	1.8	.0	.0		12.9	12.9		9.9	17.1	4.2	19.2	18.6	11.1	11.4	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3							5.3	.0		2.8	6.3	4.2	7.7	5.7	11.1	6.9	7.1
TOT OBS	21	48	69	23	7	1	171		14.0		38	11	26	19	35	9	22	14
TOT PCT	12.3	28.1	40.4	14.6	4.1	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	09	12	18
N	.6	6.7	2.2	.6	.0		10.1	15.2	10.2	10.8	6.8	12.2	
NE	1.3	2.2	.6	.0	.0		4.2	8.9	5.8	10.0	2.8	8.3	
E	2.0	4.3	1.8	.0	.0		8.3	12.6	8.3	10.8	6.3	8.3	
SE	2.6	2.3	.0	.0	.0		5.0	6.9	3.7	.0	6.8	9.7	
S	3.2	2.8	1.3	.0	.0		7.3	9.2	7.9	8.8	6.8	5.6	
SW	4.1	6.7	3.4	5.7	1.2		23.1	19.3	22.2	24.3	23.9	22.2	
W	7.0	3.8	6.4	3.9	.6		23.8	16.4	26.4	30.4	22.7	14.6	
NW	2.3	7.3	2.8	.3	.0		12.9	12.9	12.0	9.3	17.0	12.3	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	5.3						5.3	.0	.0	.0	.0	.0	
TOT OBS	49	66	35	18	3	171		14.0	34	37	44	36	
TOT PCT	28.7	38.6	20.5	10.5	1.8		100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973AREA 0016 MAGELLAN STRAIT EAST
91.45 65.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.7	9.3	27.8	40.7	13.0	3.7	1.9	13.9	100.0	34
0600	3.4	2.7	35.1	43.2	13.5	.0	.0	13.0	100.0	37
1200	6.8	6.8	27.3	36.4	15.9	6.8	.0	14.1	100.0	44
1800	5.6	8.3	22.2	41.7	16.7	5.6	.0	13.1	100.0	36
TOT	9	12	48	69	23	7	1	14.0		171
PCT	5.3	7.0	28.1	40.4	14.6	4.1	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	2.1	2.8	4.7		6.2
NE	.7	.0	.0	1.4		3.6
E	.0	.0	.0	.0		.0
SE	.0	.0	.7	.0		6.0
S	3.2	1.1	3.3	2.1		4.3
SW	13.4	9.3	6.0	6.3		3.8
W	15.1	.7	7.7	2.1		3.1
NW	4.2	.7	1.8	3.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	2.8		8.0
TOT OBS	27	10	16	18	71	4.2
TOT PCT	38.0	14.1	22.5	25.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	1.4	.0	1.4	.0	3.9	1.4	.0	.0	.0	.0	4.9	
NE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
S	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	7.7	
SW	.0	.0	.0	1.4	1.4	.0	4.2	3.5	.0	.0	24.6	
W	.0	.0	.0	.0	3.2	.7	.7	.7	.0	.0	20.4	
NW	.0	.0	.0	.0	1.4	.7	1.4	.0	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	
TOT OBS	2	0	1	2	7	3	3	3	0	0	47	71
TOT PCT	2.8	.0	1.4	2.8	9.9	4.2	6.5	4.2	.0	.0	66.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >3	= OR >2	VSBY (NM)		= OR >1/2	= OR >1/4	= OR >5000	= OR >0
				= OR >1	= OR >1/2				
= OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
= OR >3500	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >3000	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9
= OR >2500	22.5	26.8	26.8	26.8	26.8	26.8	26.8	26.8	26.8
= OR >2000	23.9	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
= OR >1500	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
= OR >1000	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
= OR >500	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
= OR >150	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
= OR >0	23.9	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
TOTAL	17	21	22	22	22	24	24	24	24

TOTAL NUMBER OF OBS: 71

PCT FREQ NM <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.0	21.3	16.0	4.0	2.7	10.7	2.7	8.0	13.3	73

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

APRIL

AREA 0016, MAGELLAN STRAIT EAST
31.45 69.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
	TOT S	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
1/2<1	PCP	.0	.7	.0	.4	.4	.0	.0	.0	.0	.0	.0	1.4
	NO PCP	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	1.4
	TOT S	.0	.7	.7	.4	.4	.0	.7	.0	.0	.0	.0	2.8
1<2	PCP	.0	.0	.0	.0	.0	.4	1.1	.0	.0	.0	.0	1.4
	NO PCP	.0	.0	.0	.0	.0	.0	.4	1.1	.0	.0	.0	1.4
	TOT S	.0	.0	.0	.0	.0	.4	1.4	1.1	.0	.0	.0	2.8
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.7	1.4	.7	.0	.0	.0	.7	4.2
	TOT S	.0	.0	.0	.0	.7	1.4	.7	.0	.0	.0	.7	4.2
5<10	PCP	.7	.0	.0	.0	.4	1.1	.7	.0	.0	2.1	.0	4.9
	NO PCP	3.1	1.1	1.1	2.8	1.4	7.7	7.4	8.4	.0	1.4	.0	36.8
	TOT S	3.8	1.1	1.1	2.8	1.8	8.8	8.1	8.4	.0	3.5	.0	41.7
10+	PCP	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.7
	NO PCP	3.2	.4	.0	.0	.0	3.9	16.9	16.7	4.8	.0	.7	46.5
	TOT S	3.2	.4	.0	.0	.0	3.9	17.6	16.7	4.8	.0	.7	47.2
TOT OBS													142
TOT PCT		9.7	2.1	1.8	4.2	7.7	27.3	27.6	14.4	.0	4.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7
	11-21	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.7	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.7	.7	.3	.3	.0	.7	.0	.0	.0	.0	2.8
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.7	.7	.3	.3	.0	.7	.0	.0	.0	.0	2.8
1<2	0-3	.0	.0	.0	.0	.0	.3	.7	.0	.0	.0	.0	.7
	4-10	.0	.0	.0	.0	.0	.3	.7	.3	.0	.0	.0	1.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.0	.0	.3	1.4	1.0	.0	.0	.0	2.8
1<5	0-3	.0	.0	.0	.0	.0	.7	.7	.0	.0	.7	.0	2.1
	4-10	.0	.0	.0	.7	1.4	.0	.0	.0	.0	.0	.0	2.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT S	.0	.0	.0	.7	1.4	.7	.7	.0	.0	.7	.0	4.2
5<10	0-3	.3	.7	.0	1.4	.7	.0	.0	.3	.0	3.5	.0	7.9
	4-10	.0	.3	1.0	.7	.7	2.1	1.7	3.1	.0	.0	.0	9.8
	11-21	4.7	.0	.0	.7	.3	2.8	2.1	3.3	.0	.0	.0	16.0
	22+	.7	.0	.0	.0	.0	3.8	4.2	1.7	.0	.0	.0	10.5
	TOT S	5.8	1.0	1.0	2.8	1.7	8.7	8.0	8.6	.0	3.5	.0	41.3
10+	0-3	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.7	.0	2.1
	4-10	.7	.3	.0	.0	1.4	3.1	4.2	1.4	.0	.0	.0	11.2
	11-21	1.7	.0	.0	.0	2.1	7.9	6.1	3.0	.0	.0	.0	22.4
	22+	.7	.0	.0	.0	.0	6.3	4.4	.3	.0	.0	.0	11.9
	TOT S	3.1	.3	.0	.0	4.5	17.3	16.6	4.7	.0	.7	.0	47.6
TOT OBS													142
TOT PCT		9.6	2.1	1.7	4.2	8.4	27.3	27.4	14.3	.0	4.9	100.0	

APRIL

PERIOD: (PRIMARY) 1929-1975
(OVER-ALL) 1921-1975AREA 0010 MAGELLAN STRAIT EAST
31.4S 65.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) (NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 309	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	10.3	.0	.0	5.3	.0	.0	10.3	10.3	.0	.0	30.8	63.2	19
0600Z	.0	.0	5.9	.0	5.9	5.9	5.9	.0	.0	.0	23.5	76.5	17
1201Z	.0	.0	.0	.0	11.0	.0	11.0	5.9	.0	.0	27.9	70.0	17
1802Z	.0	.0	.0	5.3	21.1	10.3	5.3	.0	.0	.0	42.1	57.9	19
TOT	2	0	1	2	7	3	6	3	0	0	24	43	72
PCT	2.8	.0	1.4	2.6	9.7	4.2	8.3	4.2	.0	.0	30.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	2.1	4.3	2.1	0.4	40.0	30.3	47
0600Z	.0	2.9	5.0	2.9	30.2	30.0	34
1201Z	.0	.0	2.0	0.3	30.9	30.0	36
1802Z	3.6	3.6	.0	.0	38.7	37.1	38
TOT	2	4	4	7	39	69	143
PCT	1.4	2.8	2.6	4.0	40.7	47.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) (NM >4/8) BY HOUR

HOUR (GMT)	<150 <5000	<600 41	<1000 45	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	10.5	10.5	13.0	21.1	62.3	19
0600Z	.0	0.3	0.3	10.0	79.0	10
1201Z	.0	.0	.0	29.4	70.6	17
1802Z	.0	10.5	10.5	36.0	52.0	19
TOT	2	3	6	19	46	71
PCT	2.0	7.0	8.5	26.8	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
33/33	.0	.0	.0	.0	.0	1.3	1.3	.0	4	2.6
34/34	.0	.0	.0	.0	4.3	3.2	7.7	1.3	27	17.4
40/40	.0	.0	.0	2.0	5.0	14.0	25.0	23.9	112	72.9
40/40	.0	.0	.0	1.0	3.2	.0	.0	.0	9	5.6
33/33	.0	.0	.0	.0	.0	.0	1.3	.0	2	1.3
TOTAL	0	0	0	3	19	23	33	41	105	100.0
PCT	.0	.0	.0	2.7	12.3	12.0	20.5	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.6	2.4	0.0	3.9	0.1	10.5	17.0	10.0	.0	.0	.0
.0	.3	1.0	.0	.0	1.3	2.3	1.0	.0	.0	.0
.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0
9.0	3.4	0.0	3.2	7.1	23.2	23.0	13.2	.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	35	34	32	40	40	34	34	4.0	34
0600Z	51	50	50	40	42	42	42	47.1	35
1201Z	50	54	53	40	44	43	43	47.9	47
1802Z	37	36	32	40	44	45	45	48.9	39
TOT	57	55	52	48	44	37	34	47.0	100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	0.0	0.0	22.0	30.0	36.0	64	30		
0600Z	.0	2.7	17.5	24.3	40.3	16.9	82	37		
1201Z	.0	2.6	16.3	23.6	43.6	17.9	81	39		
1802Z	.0	.0	23.3	16.7	30.0	30.0	82	30		
TOT	0	3	19	35	34	41	82	134		

APRIL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

TABLE 17

AREA 0010 MAGELLAN STRAIT EAST
51.4S 69.5WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.7	.0	.0	.7	2	.0	1.4
8	.0	.0	.0	.0	.0	1.4	.0	2	.0	1.4
9	.0	.0	.0	.0	.7	1.4	.0	3	.0	2.1
4	.0	.0	.0	.0	2.8	.7	.0	5	.0	3.5
3	.0	.0	.0	.0	5.0	.7	.0	8	.0	5.7
2	.0	.0	.0	2.1	5.7	.0	.0	11	.0	7.8
1	.0	.0	.0	11.9	5.7	.0	.0	24	2.1	14.9
0	.0	.0	.0	19.4	5.0	.0	.0	29	1.4	19.1
-1	.0	.0	.7	9.1	2.8	.0	.0	18	1.4	11.2
-2	.0	.0	.7	8.5	2.1	.0	.0	16	.7	10.6
-3	.0	.0	3.3	4.3	.0	.0	.0	11	.7	7.1
-4	.0	.7	.0	1.4	2.1	.0	.0	6	.7	3.5
-5	.0	.0	.0	1.4	.0	.0	.0	2	.0	1.4
-7/-8	.0	.7	.0	.0	.0	.0	.0	1	.0	.7
-9/-10	.7	.0	.7	.0	.0	.0	.0	2	.0	1.4
-11/-13	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
TOTAL	1	2	8	78	43	6	1	141	10	131
PCT	.7	1.4	9.7	59.3	31.9	4.3	.7	100.0	7.1	92.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	25.8	.0	.0	.0	25.8	.0	4.8	.0	.0	.0	.0	4.8

HEI	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
46-50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

APRIL

AREA 0016 MAGELLAN STRAIT EAST
51.4S 63.5W

TABLE 10 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	7.1	.0	.0	.0	7.1	.0	.0	2.4	4.8	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	7.1	.0	.0	.0	7.1	.0	4.8	2.4	9.2	.0	.0	16.7	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	4.8	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	4.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	4.8	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	4.8	3.6	4.8	.0	13.1	.0	.0	.0	1.2	.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	4.8	14.3	3.6	4.8	.0	32.1	.0	4.8	.0	1.2	.0	.0	6.0	95.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	.0	.0	.0	.0	.0	9.5	
1-2	.0	9.5	4.8	.0	.0	.0	14.3	
3-4	.0	14.3	9.5	.0	.0	.0	23.8	
5-6	.0	.0	23.8	4.8	.0	.0	28.6	
7	.0	.0	4.8	4.8	.0	.0	9.5	
8-9	.0	.0	4.8	4.8	4.8	.0	14.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	23.8	47.6	14.3	4.8	.0	100.0	21

PERIOD: (OVER-ALL) 1949-1973

TABLE 10

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-46	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	8.7	10.9	8.7	4.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
6-7	.0	.0	4.3	13.0	4.3	2.2	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
8-9	.0	.0	.0	.0	8.7	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	9	10
10-11	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
15-17	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	2.2	.0	2.2	2.2	2.2	.0	2.2	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
TOTAL	1	4	9	12	9	3	4	1	2	0	1	0	0	0	0	0	0	0	0	46	6
PCT	2.2	8.7	19.6	26.1	19.6	6.5	8.7	2.2	4.3	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1929-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.7W

TABLE 17

PCT PRPG OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIP	37 40	41 44	43 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	1.0	1	.0	1.0
7/8	.0	.0	1.0	.0	.0	.0	1	.0	1.0
6	.0	.0	.0	1.0	1.0	.0	2	.0	2.0
5	.0	.0	.0	1.0	.0	.0	1	.0	1.0
4	.0	1.0	1.0	4.9	.0	.0	7	1.0	3.9
3	.0	2.0	2.9	2.9	.0	.0	8	.0	7.8
2	.0	2.0	3.9	1.0	.0	.0	7	2.0	4.9
1	1.0	3.9	8.8	2.9	.0	.0	17	3.9	12.7
0	.0	.0	11.8	2.0	.0	.0	14	2.0	11.8
-1	.0	3.9	6.9	.0	.0	.0	11	1.9	9.8
-2	2.0	4.9	3.9	1.0	.0	.0	12	1.0	10.8
-3	1.0	3.9	1.0	.0	.0	.0	6	.0	5.9
-4	1.0	2.9	.0	.0	.0	.0	4	1.0	2.9
-5	4.9	2.9	.0	.0	.0	.0	8	.0	7.8
-6	1.0	1.0	1.0	.0	.0	.0	3	.0	2.9
TOTAL	11	43	17	1	1	102	11.8	88.2	
PCT	10.8	28.4	42.2	16.7	1.0	1.0	108.0	11.8	88.2

PERIOD: (OVER-ALL) 1949-1972

TABLE 18

PCT PRPG OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	5.3	5.3	.0	.0	.0	10.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.3	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.8	15.8	.0	.0	.0	26.3	.0	.0	.0	.0	.0	.0	.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	5.3	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0

MAY

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1923-1972

AREA 0016 MAGELLAN STRAIT EAST
91.25 65.7M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-17	18-24	25-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	.0	9.4	25.0	46.9	18.8	.0	.0	.0	14.7	100.0	32
0400	4.3	.0	39.1	34.8	13.0	8.7	.0	.0	15.3	100.0	23
1200	.0	.0	46.2	34.6	15.4	3.8	.0	.0	13.4	100.0	26
1800	.0	.0	43.5	28.1	30.4	.0	.0	.0	15.7	100.0	23
TOT	1	2	39	38	20	3	0	0	14.7		104
PCT	1.0	2.0	37.5	36.5	19.2	2.9	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	5.3	1.8	3.3	3.3		3.1
NE	.0	.0	1.8	.0		7.0
E	.0	.0	.9	3.3		7.8
SE	.0	.0	6.1	4.8		7.0
S	3.1	.0	3.3	11.8		4.2
SW	1.8	4.4	3.3	6.1		5.3
W	7.9	2.6	7.9	4.8		4.1
NW	3.1	1.8	3.1	2.2		4.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	12	6	17	22	57	3.4
TOT PCT	21.1	10.8	29.8	38.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	400	1000	2000	3500	5000	6500	8000	9000	NM <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
N	.0	.0	.0	.0	1.8	.0	3.3	.0	.0	.0	.0	10.3	
NE	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	.0	1.8	2.6	.0	.0	.0	.0	.0	.0	
SE	.4	.0	.0	.0	2.6	.9	3.4	1.8	.0	.0	.0	1.8	
S	1.3	.0	1.8	1.8	.0	4.8	1.3	.0	.0	.0	.0	6.6	
SW	.0	.0	.0	1.8	3.3	2.2	2.2	.0	.0	.0	.0	6.1	
W	.0	.0	.0	1.3	3.3	.0	.0	1.3	.0	.0	.0	14.9	
NW	.0	.0	.0	.4	3.3	.0	.0	.4	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	1	3	12	6	6	1	1	0	0	26	57
TOT PCT	1.8	.0	1.8	5.3	21.1	10.8	10.8	1.8	1.8	.0	.0	49.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	>10	>20	>30	>40	>50	>60	>70	>80	>90
>4950	.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
>4800	.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>4650	3.4	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
>4500	3.4	20.7	24.1	24.1	24.1	24.1	24.1	24.1	24.1
>4350	10.8	41.4	44.8	44.8	44.8	44.8	44.8	44.8	44.8
>4200	24.1	46.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0
>4050	24.1	48.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7
>3900	24.1	48.3	51.7	51.7	51.7	51.7	51.7	51.7	51.7
>3750	24.1	50.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4
TOTAL	14	29	31	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 58

PCT FREQ NM <5/8: 49.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	14.8	9.8	9.8	4.9	4.9	4.9	13.1	6.6	29.3	1.6	61

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1923-1972

MAY

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.74

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
2<5	PCP	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	TOT %	.0	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	2.0	
5<10	PCP	.0	.0	.0	.0	1.0	.0	1.0	1.0	.0	.0	4.0	
	NO PCP	1.0	1.0	1.0	6.0	5.0	1.2	6.0	6.0	.0	1.0	40.0	
	TOT %	1.0	1.0	1.0	6.0	6.0	1.2	7.0	7.0	.0	1.0	44.0	
10+	PCP	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
	NO PCP	7.7	2.9	1.0	1.0	3.1	8.2	14.2	9.1	.0	.0	47.1	
	TOT %	8.7	2.9	1.0	1.0	3.1	9.1	14.2	9.1	.0	.0	48.1	
TOT OBS													104
TOT PCT		22.6	4.3	4.3	7.5	10.6	10.6	21.2	18.0	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
	4-10	8.7	.0	1.0	2.2	3.4	.0	1.2	2.9	.0	.0	15.4	
	11-21	4.3	.0	.0	.0	1.0	.0	.0	2.9	.0	.0	8.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	13.0	1.0	1.0	3.2	4.4	.0	1.2	5.9	.0	1.0	24.6	
10+	0-3	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	
	4-10	2.9	1.0	1.0	.0	1.2	2.2	3.4	2.9	.0	.0	15.4	
	11-21	3.8	1.0	.0	1.0	1.0	3.1	8.9	3.4	.0	.0	22.1	
	22+	1.9	.0	.0	.0	.0	3.8	1.9	2.9	.0	.0	10.6	
	TOT %	8.7	2.9	1.0	1.0	3.1	9.1	14.2	9.1	.0	.0	49.0	
TOT OBS													104
TOT PCT		22.6	4.3	4.3	7.5	10.6	10.6	21.2	18.0	.0	1.0	100.0	

MAY

PERIOD: (PRIMARY) 1970-1972
(OVER-ALL) 1973-1972AREA 0016 MAGELLAN STRAIT EAST
51.25 65.7W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 1-9	150 299	300 399	600 699	1000 1999	2000 2499	3500 4499	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.3	6.3	18.8	12.5	6.3	.0	.0	50.0	50.0	16
06009	.0	.0	8.3	.0	23.3	.0	.0	.0	8.3	.0	50.0	50.0	12
12015	7.7	.0	.0	15.4	30.8	7.7	15.4	.0	.0	.0	76.9	23.1	13
18021	.0	.0	.0	.0	17.6	11.8	11.8	.0	.0	.0	41.2	58.8	17
TOT	1	0	1	3	12	6	6	1	1	0	31	27	58
PCT	1.7	.0	1.7	5.2	20.7	10.3	10.3	1.7	1.7	.0	53.4	46.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	.0	9.0	3.0	43.5	48.5	13
06009	.0	.0	.0	4.2	45.8	50.0	24
12015	.0	3.8	.0	.0	46.2	50.0	26
18021	.0	4.2	.0	4.2	37.3	54.2	24
TOT	0	2	1	3	47	56	107
PCT	.0	1.9	.9	2.8	43.9	50.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	12.5	37.5	50.0	16
06009	.0	8.3	8.3	41.7	50.0	12
12015	7.7	7.7	23.1	53.8	23.1	13
18021	.0	.0	9.9	35.3	58.8	17
TOT	1	2	7	24	27	58
PCT	1.7	3.4	12.1	41.4	46.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	1.2	.0	.0	1	1.2
50/54	.0	.0	.0	.0	2.4	4.7	2.4	1.2	9	10.6
40/49	.0	.0	.0	2.4	4.7	14.1	17.6	12.9	44	51.8
30/44	.0	.0	.0	.0	7.1	4.7	7.1	14.1	28	32.9
20/39	.0	.0	.0	.0	.0	2.4	.0	1.2	3	3.3
TOTAL	0	0	0	2	12	23	23	23	63	100.0
PCT	.0	.0	.0	2.4	14.1	27.1	27.1	29.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0
50/54	3.9	.0	.0	.0	.0	1.3	3.2	.0	.0	.0
40/49	13.8	1.8	2.9	7.3	7.1	1.2	10.6	13.2	.0	1.2
30/39	4.7	2.9	1.2	5.3	1.8	8.3	9.3	2.1	.0	.0
TOTAL	.0	.6	.6	.0	.0	.6	1.8	.0	.0	.0
PCT	24.1	5.3	4.7	5.6	8.8	11.8	22.1	16.3	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	39	34	43	38	38	38	43.3	33
06009	50	49	45	38	38	38	38	44.9	24
12015	53	32	32	43	40	40	40	43.2	26
18021	52	31	31	43	39	37	37	43.5	24
TOT	60	34	32	43	39	37	37	43.2	107

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	13.8	31.0	17.2	37.9	23	23	23	29
06009	.0	.0	10.5	21.1	36.8	31.8	83	19		
12015	.0	9.3	4.8	28.6	33.3	23.8	81	21		
18021	.0	.0	27.8	27.8	27.8	16.7	78	18		
TOT	0	2	12	24	24	23	81	87		

PERIOD: (PRIMARY) 1929-1972
(OVER-ALL) 1929-1972

MAY

TABLE 17

AREA 0016 MAGELLAN STRAIT EAST
51.25 65.7W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIP	37 40	41 44	43 48	49 52	53 56	57 60	TOT	h PCG	WD FOG
11/13	.0	.0	.0	.0	.0	1.0	1	.0	1.0
7/8	.0	.0	1.0	.0	.0	.0	1	.0	1.0
6	.0	.0	.0	1.0	1.0	.0	2	.0	2.0
5	.0	.0	.0	1.0	.0	.0	1	.0	1.0
4	.0	1.0	1.0	4.9	.0	.0	7	1.0	5.9
3	.0	2.0	2.9	2.9	.0	.0	8	.0	7.8
2	.0	2.0	3.9	1.0	.0	.0	7	2.0	4.9
1	1.0	3.9	8.8	2.9	.0	.0	17	3.9	12.7
0	.0	.0	11.8	2.0	.0	.0	14	2.0	11.8
-1	.0	3.9	6.9	.0	.0	.0	11	1.0	9.8
-2	2.0	4.9	3.9	1.0	.0	.0	12	1.0	10.8
-3	1.0	3.9	1.0	.0	.0	.0	6	.0	5.9
-4	1.0	2.9	.0	.0	.0	.0	4	1.0	2.9
-5	4.9	2.9	.0	.0	.0	.0	8	.0	7.8
-6	1.0	1.0	1.0	.0	.0	.0	3	.0	2.9
TOTAL	11	43	17	1	1	102	12	90	
PCT	10.8	28.4	42.2	16.7	1.0	1.0	100.0	11.8	88.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	5.3	5.3	.0	.0	.0	10.6	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.3	.0	.0	.0	.0	5.3	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	5.3	.0	.0	.0	5.3	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	5.3	.0	.0	.0	5.3	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.6	19.8	.0	.0	.0	26.3	TOT PCT	.0	.0	.0	.0	.0	.0	.0

HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT	HEG	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	5.3	.0	.0	.0	.0	5.3	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	.0	.0	.0	.0	5.3	TOT PCT	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA '016 MAGELLAN STRAIT EAST
51.25 65.7W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	10.5	.0	.0	13.2
5-6	.0	.0	5.3	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	5.3	.0	.0	.0	5.3	.0	2.6	1.3	10.5	.0	.0	14.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	3.3	.0
3-4	.0	3.3	3.3	.0	.0	.0	7.9	.0	3.3	.0	.0	.0	.0	3.3	.0
5-6	.0	.0	9.2	.0	.0	.0	9.2	.0	.0	1.3	.0	.0	.0	1.3	.0
7	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.2	13.4	.0	3.3	.0	36.8	.0	10.3	1.3	.0	.0	.0	11.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	15.8	5.3	.0	.0	.0	21.1	
1-2	.0	15.8	.0	.0	.0	.0	15.8	
3-4	.0	10.5	10.5	10.5	.0	.0	31.6	
5-6	.0	.0	21.1	.0	.0	.0	21.1	
7	.0	.0	3.3	.0	.0	.0	3.3	
8-9	.0	.0	.0	.0	3.3	.0	3.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	42.1	42.1	10.5	3.3	.0	100.0	19

PERIOD: (OVER-ALL) 1960-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	6.7	22.2	2.2	2.2	6.7	2.2	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
6-7	.0	.0	.0	11.1	4.4	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
8-9	.0	.0	.0	.0	2.2	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	4.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.9	.0	2.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	1
TOTAL	6	3	12	9	3	6	2	2	0	0	0	0	0	0	0	0	0	0	0	45	5
PCT	13.3	6.7	26.7	20.0	11.1	13.3	4.4	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

JUNE

AREA 0016 MAGELLAN STRAIT EAST
51.35 69.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WVD DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	1.9	.0	.0	.0	.0	1.9	.9	.0	.0	.0	.0	.0	94.2
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	20.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
S	24.1	.0	.0	.0	.0	.0	.0	24.1	.0	.0	.0	.0	.0	.0	75.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	88.9
W	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	9.8	.0	.0	.0	85.4
NW	.0	.0	3.4	.0	.0	.0	.0	3.4	.0	.0	10.8	.0	.0	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	.0	2.6	.0	.0	.0	.0	5.3	1.3	.0	5.3	.0	.0	.0	88.2
TOT OBS:	76														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	3.8	.0	7.7	.0	.0	.0	.0	11.5	.0	.0	3.8	.0	.0	.0	84.6
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	93.0
1200Z	5.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	10.0	.0	.0	.0	85.0
1800Z	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	90.9
TOT PCT TOT OBS:	2.6 77	.0	2.6	.0	.0	.0	.0	5.2	1.3	.0	5.2	.0	.0	.0	88.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-9	WIND SPEED (KNOTS)					40+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
		10-19	20-29	30-39	40-47	00					03	06	09	12	15	18	21
N	.0	15.4	9.0	2.5	6.2	.0		33.0	16.0	9.4	40.0	46.9	30.0	35.9	62.5	21.9	10.0
NE	.0	1.3	3.4	.0	.0	.0		4.9	14.8	6.3	.0	3.1	3.6	9.4	12.9	3.1	.0
E	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.2	.0	.0	.3	.0		1.5	19.0	.0	.0	.0	.0	1.6	.0	12.9	.0
S	.0	.0	4.3	4.3	.9	.0		9.6	23.3	12.5	5.0	12.5	.0	10.9	.0	25.0	10.3
SW	1.2	.0	6.2	3.6	.3	.0		13.3	20.2	26.6	5.0	12.5	14.3	7.8	25.0	3.1	10.0
W	.0	3.7	8.3	1.2	1.5	.0		14.8	19.4	17.2	15.0	12.5	7.1	9.4	.0	34.4	30.3
NW	.0	12.7	4.6	1.2	4.3	.0		22.8	19.1	28.1	35.0	12.5	25.0	25.0	.0	.0	40.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	1	28	29	12	11	0	81		16.9	16	10	8	14	16	4	8	8
TOT PCT	1.2	34.6	35.8	14.8	13.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	6.2	17.0	2.5	7.4	.0	33.0	16.0	21.2	48.9	41.3	17.3	
NE	.0	2.3	.0	.0	.0	4.9	14.8	3.8	3.4	10.0	1.9	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	1.2	.0	.3	.0	1.5	19.0	.0	.0	1.3	7.7	
S	.0	2.5	3.1	4.0	.0	9.6	23.3	5.6	4.5	8.5	19.2	
SW	1.2	3.1	3.6	3.4	.0	13.3	20.2	18.3	13.6	11.3	5.8	
W	3.7	7.1	2.5	1.3	.0	14.8	19.4	16.3	9.1	7.3	32.7	
NW	6.2	11.1	.0	5.6	.0	22.8	15.1	20.8	20.9	20.0	15.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	14	36	13	18	0	81	16.9	24	22	20	13	
TOT PCT	17.3	44.4	16.0	22.2	.0	100.0		100.0	100.0	100.0	100.0	

JUNE

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1927-1973AREA 0010 MAGELLAN STRAIT EAST
31.35 65.6W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-23	24-47				
00603	.0	3.8	19.2	50.0	15.4	11.5	.0	16.9	100.0	26
06609	.0	.0	54.5	22.7	18.2	4.5	.0	13.5	100.0	22
12615	.0	.0	35.0	40.0	5.0	20.0	.0	17.6	100.0	20
18621	.0	.0	30.8	23.1	23.1	23.1	.0	21.5	100.0	13
TOT	.0	1	28	29	12	11	.0	16.9		81
PCT	.0	1.2	34.6	35.8	14.8	13.6	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	8.7	.0	10.9	7.4		4.6
NP	.0	.0	5.4	5.4		6.3
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	5.4		8.0
S	.0	.0	4.5	7.4		7.6
SW	5.4	4.3	1.1	.0		2.1
W	10.9	2.2	3.5	.0		1.9
NH	9.8	2.2	5.1	.0		2.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	8	2	7	4	23	4.3
TOT PCT	34.8	8.7	30.4	26.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	130	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
144	299	999	999	1999	3499	4999	6499	7999			
.0	3.3	.0	3.3	4.3	4.3	.0	.0	.0	.0	12.0	
.0	1.1	.0	4.3	4.3	.0	.0	.0	.0	.0	1.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	3.3	4.3	.0	.0	.0	.0	.0	4.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.3	
.0	.0	.0	1.1	4.3	.0	.0	.0	.0	.0	12.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	1	0	4	4	1	.0	.0	.0	.0	13	23
.0	4.3	.0	17.4	17.4	4.3	.0	.0	.0	.0	56.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NH)				OR >10
				OR >1	OR >1/2	OR >1/4	OR >50YD	
OR >3000	.0	.0	.0	.0	.0	.0	.0	.0
OR >2000	.0	.0	.0	.0	.0	.0	.0	.0
OR >1500	.0	.0	.0	.0	.0	.0	.0	.0
OR >1000	.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2
OR >800	8.3	20.8	20.8	20.8	20.8	20.8	20.8	20.8
OR >600	16.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5
OR >400	16.7	37.5	37.5	37.5	37.5	37.5	37.5	37.5
OR >200	16.7	37.5	41.7	41.7	41.7	41.7	41.7	41.7
OR >0	16.7	37.5	41.7	41.7	41.7	41.7	41.7	41.7
TOTAL	4	9	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 24

PCT FREQ NH <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
37.0	.0	3.7	3.7	7.4	3.7	18.3	7.4	18.3	.0	27

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

JUNE

AREA 0016 MAGELLAN STRAIT EAST
31.35 65.6W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.3	1.3
	TOT %	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.3	1.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.3	1.3
	NO PCP	1.0	.3	.0	.0	.7	.7	.0	.0	.0	.0	2.6	2.6
	TOT %	1.0	.3	.0	.0	.7	.7	.7	.7	.0	.0	3.9	3.9
5<10	PCP	.7	.0	.0	.3	1.0	.0	.0	.7	.0	.0	2.6	2.6
	NO PCP	16.4	2.0	.0	1.3	5.3	7.9	3.3	11.2	.0	.0	47.4	47.4
	TOT %	17.1	2.0	.0	1.6	6.3	7.9	3.3	11.8	.0	.0	50.0	50.0
10+	PCP	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	1.3
	NO PCP	15.8	3.0	.0	.0	1.3	3.3	8.9	11.2	.0	.0	43.4	43.4
	TOT %	15.8	3.0	.0	.0	2.6	3.3	8.9	11.2	.0	.0	44.7	44.7
TOT OBS													76
TOT PCT		33.9	3.3	.0	1.6	9.3	11.8	13.3	24.3	.0	.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	1.3	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	1.0	.3	.0	.0	.0	.0	.7	.7	.0	.0	2.6	2.6
	22+	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	1.3	1.3
	TOT %	1.0	.3	.0	.0	.7	.7	.7	.7	.0	.0	3.9	3.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	9.2	.0	.0	1.3	.0	.0	.7	7.2	.0	.0	18.4	18.4
	11-21	3.9	2.0	.0	.0	2.0	3.3	2.0	2.0	.0	.0	17.1	17.1
	22+	2.0	.0	.0	.3	4.3	4.6	.7	2.6	.0	.0	14.3	14.3
	TOT %	17.1	2.0	.0	1.6	6.3	7.9	3.3	11.8	.0	.0	50.0	50.0
10+	0-3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	1.3
	4-10	3.9	1.6	.0	.0	.0	.0	3.3	6.3	.0	.0	17.1	17.1
	11-21	2.6	1.3	.0	.0	2.6	1.6	4.6	1.6	.0	.0	14.3	14.3
	22+	7.2	.0	.0	.0	.0	.3	1.0	3.3	.0	.0	11.8	11.8
	TOT %	13.8	3.0	.0	.0	2.6	3.3	8.9	11.2	.0	.0	44.7	44.7
TOT OBS													76
TOT PCT		33.9	3.3	.0	1.6	9.3	11.8	13.3	24.3	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1928-1973
(OVER-ALL) 1927-1973AREA 0016 MAGELLAN STRAIT EAST
51.35 65.04

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/MH >4/8) AND
OCCURRENCE OF NH: <3/8 BY HOUR

MOHR (GMT)	000 149	150 209	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY MGT	TOTAL OBS
0000	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	12.5	87.5	8
0600	.0	.0	.0	.0	20.0	20.0	.0	.0	.0	.0	40.0	60.0	5
1200	.0	.0	.0	60.0	.0	.0	.0	.0	.0	.0	60.0	40.0	5
1800	.0	16.7	.0	16.7	33.3	.0	.0	.0	.0	.0	66.7	33.3	6
TOT	0	1	0	4	4	1	0	0	0	0	10	14	24
PCT	.0	4.2	.0	16.7	16.7	4.2	.0	.0	.0	.0	41.7	33.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (MH) BY HOUR

MOHR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000	.0	.0	3.8	7.7	30.8	57.7	26
0600	.0	.0	.0	.0	65.0	35.0	20
1200	.0	.0	.0	.0	60.0	40.0	20
1800	.0	.0	.0	9.1	45.5	45.5	11
TOT	0	0	1	3	38	35	77
PCT	.0	.0	1.3	3.9	49.4	45.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (MH) AND/OR
CEILING HGT (FEET/MH >4/8) BY HOUR

MOHR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
0000	.0	.0	.0	12.5	87.5	8
0600	.0	.0	.0	40.0	60.0	5
1200	.0	.0	60.0	.0	40.0	5
1800	.0	16.7	33.3	33.3	33.3	6
TOT	0	1	5	5	14	24
PCT	.0	4.2	20.8	20.8	33.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	1.4	.0	.0	.0	1	1.4
45/49	.0	.0	.0	.0	2.8	18.2	15.5	7.0	31	43.7
40/44	.0	.0	.0	.0	1.4	7.0	8.5	16.9	24	33.8
35/39	.0	1.4	.0	.0	4.2	2.8	5.6	7.0	19	21.1
TOTAL	0	1	0	0	7	20	21	22	71	100.0
PCT	.0	1.4	.0	.0	9.9	28.2	29.6	31.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
45/49	20.1	2.1	.0	.0	1.4	4.2	3.2	12.7	.0	.0
40/44	9.9	1.4	.0	1.4	.0	1.8	8.8	10.6	.0	.0
35/39	.0	.0	.0	.4	8.1	8.8	3.9	.0	.0	.0
TOTAL	31.3	3.5	.0	1.8	9.5	14.8	15.8	23.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (OBS F) BY HOUR

MOHR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	49	48	48	43	36	36	36	43.1	76
0600	30	40	48	44	38	35	35	43.5	23
1200	47	46	46	44	37	35	35	43.1	21
1800	46	45	45	41	36	36	36	41.2	13
TOT	30	45	47	43	36	35	35	42.9	83

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	4.0	12.0	20.0	40.0	24.0	81	23		
0600	.0	.0	16.7	33.3	27.8	22.2	81	16		
1200	.0	.0	6.3	37.5	25.0	31.3	83	16		
1800	.0	.0	.0	23.1	23.1	33.8	87	13		
TOT	0	1	7	27	22	22	83	72		

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1922-1973

JUNE

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.6W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	TOT	M FOG	W/O FOG
6	.0	.0	.0	.0	1.4	1	.0	1.4
4	.0	.0	.0	2.9	.0	2	.0	2.9
3	.0	.0	.0	2.9	.0	2	.0	2.9
2	.0	.0	.0	4.3	.0	3	.0	4.3
1	.0	.0	2.9	8.7	1.4	3	1.4	11.0
0	.0	.0	7.2	14.5	.0	15	.0	21.7
-1	1.4	.0	5.8	7.2	.0	10	.0	14.5
-2	.0	1.4	11.6	1.4	.0	10	.0	14.5
-3	.0	1.4	1.4	.0	.0	2	.0	2.9
-4	1.4	2.9	1.4	.0	.0	4	.0	5.8
-5	1.4	1.4	1.4	.0	.0	3	1.4	2.9
-6	.0	4.3	.0	.0	.0	3	.0	4.3
-7/-8	.0	1.4	1.4	.0	.0	2	.0	2.9
-9/-10	1.4	1.4	.0	.0	.0	2	.0	2.9
-11/-13	1.4	.0	.0	.0	.0	1	.0	1.4
TOTAL	3	10	23	29	2	69	1.4	67
PCT	7.2	14.5	33.3	42.0	2.9	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	.0
3-4	.0	9.4	25.0	.0	.0	.0	34.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	34.4	25.0	.0	.0	.0	39.4	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1973

JUNE

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.6W

TABLE 16 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	3.1	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	3.1

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	3.1	.0
5-6	.0	.0	9.4	.0	.0	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	9.4	.0	.0	.0	9.4	.0	.0	.0	3.1	.0	.0	.0	.0	3.1	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	.0	.0	.0	.0	12.8	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	18.8	.0	.0	.0	18.8	.0	.0	3.1	15.4	.0	.0	.0	.0	18.8	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	11.1	.0	.0	.0	.0	11.1	
1-2	11.1	11.1	.0	.0	.0	.0	22.2	
3-4	.0	11.1	22.2	.0	.0	.0	33.3	
5-6	.0	.0	11.1	.0	.0	.0	11.1	
7	.0	.0	11.1	.0	.0	.0	11.1	
8-9	.0	.0	11.1	.0	.0	.0	11.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-14	.0	.0	.0	.0	.0	.0	.0	
15-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.1	33.3	55.6	.0	.0	.0	100.0	

PERIOD: (OVER-ALL) 1961-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	13.0	26.1	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	3
6-7	.0	.0	.0	13.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
8-9	.0	.0	4.3	4.3	.0	4.3	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDET	4.3	8.7	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
TOTAL	1	5	7	3	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	23	4
PCT	4.3	21.7	10.4	21.7	13.0	4.3	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973AREA 0016 MAGELLAN STRAIT EAST
51.6S 65.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHVR	DRZL	PRZG PCPN	SNOW	OTHER PRZIN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	58.2
NE	26.1	.0	21.7	.0	.0	.0	.0	47.8	.0	.0	.0	.0	.0	.0	52.2
E	.0	.0	40.5	.0	.0	.0	.0	40.5	.0	.0	.0	.0	.0	.0	59.5
SE	.0	.0	32.3	.0	.0	.0	.0	32.3	.0	.0	.0	.0	.0	.0	66.7
S	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	10.5	.0	.0	.0	84.2
SW	.0	4.0	.0	.0	8.0	.0	.0	12.0	.0	.0	24.0	.0	.0	.0	84.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.5	.0	.0	.0	85.5
NW	6.0	.0	.0	.0	.0	.0	.0	6.0	.0	.0	6.0	.0	.0	.0	88.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.3	1.1	7.5	.0	1.1	.0	.0	14.0	.0	.0	9.7	.0	.0	.0	76.3
TOT OBS:	93														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRIN PCPN	HAIR	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	POG NO PCPN	POG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	.0	4.0	8.0	.0	4.0	.0	.0	16.0	.0	.0	.0	.0	.0	.0	84.0
0600	5.0	.0	11.1	.0	.0	.0	.0	16.7	.0	.0	16.7	.0	.0	.0	66.7
1200	7.1	.0	7.1	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	71.4
1800	4.3	.0	4.3	.0	.0	.0	.0	9.1	.0	.0	9.1	.0	.0	.0	81.8
TOT PCT TOT OBS:	4.3 93	1.1	7.5	.0	1.1	.0	.0	14.0	.0	.0	9.7	.0	.0	.0	76.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.4	8.1	3.8	3.3	.0	.0	15.6	13.3	3.5	11.4	15.9	3.6	15.2	25.0	32.0	21.2	
NE	.2	2.1	2.7	1.8	.0	.0	6.3	14.8	5.3	13.6	11.4	10.7	3.3	3.8	1.6	7.7	
E	.0	.4	4.0	.0	.0	.0	4.4	15.2	2.4	4.3	.0	10.7	3.3	7.7	6.3	.0	
SE	.4	1.3	.8	.0	.0	.0	2.3	8.1	2.4	9.1	.0	2.6	.0	.0	6.3	.0	
S	.4	2.3	4.6	.8	.8	.0	8.8	16.0	10.3	9.1	.0	17.0	9.8	.0	12.3	5.8	
SW	.0	2.7	4.4	4.6	1.3	.0	12.9	19.7	18.4	13.6	14.2	10.7	15.9	11.5	3.1	19.2	
W	1.3	8.1	11.1	6.7	1.3	.0	29.6	16.4	29.3	22.7	22.7	25.0	34.2	28.8	21.9	38.9	
NW	2.7	4.2	5.8	2.3	1.7	.0	19.6	15.9	21.1	15.9	31.8	17.9	22.8	23.1	15.6	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	7	35	44	23	6	0	120	15.9	19	11	11	14	23	13	16	13	
TOT PCT	5.8	29.2	40.8	19.2	3.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOT AL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	7-16	17-27	28-40					00	03	06	12	18
N	3.3	6.3	1.4	2.1	.0	13.8	13.3	6.7	9.0	18.8	27.6		
NE	.4	4.2	.4	1.3	.0	6.3	14.8	8.3	11.0	3.5	4.3		
E	.0	2.1	2.3	.0	.0	4.4	15.2	3.3	6.0	4.9	3.4		
SE	1.3	1.3	.0	.0	.0	2.3	8.1	5.0	2.0	.0	3.4		
S	2.7	.0	3.2	.8	.0	8.8	16.0	10.0	10.0	6.3	9.3		
SW	1.3	2.4	3.4	3.1	.0	12.9	19.7	16.7	14.0	11.1	10.3		
W	4.2	9.6	15.1	2.7	.0	29.6	16.4	30.8	24.0	32.6	29.3		
NW	3.1	7.3	7.5	1.7	.0	17.6	15.9	19.2	24.0	22.9	12.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT OBS	10	43	43	14	0	120	15.9	30	25	36	29		
TOT PCT	16.7	35.8	35.8	11.7	.0	100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

JULY

AREA 0010 MAGELLAN STRAIT EAST
51.05 65.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	.0	3.3	26.7	36.7	10.0	3.3	.0	19.3	100.0	30
0600Z	.0	12.0	48.0	28.0	8.0	4.0	.0	12.0	100.0	25
1200Z	.0	8.3	22.2	33.3	30.6	5.6	.0	17.6	100.0	26
1800Z	.0	.0	24.1	44.8	24.1	6.9	.0	17.7	100.0	29
TOT	.0	7	35	49	25	6	.0	19.9		120
PCT	.0	5.8	29.2	40.8	19.2	5.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	.0	9.2	4.4		5.4
NE	.0	1.0	.4	2.0		4.0
E	.0	.0	.0	6.0		6.0
SE	.0	.0	.0	1.0		6.0
S	1.3	1.3	1.0	3.1		5.7
SW	4.0	2.0	.4	3.0		4.2
W	11.4	6.1	7.5	1.3		3.4
NW	10.5	.4	7.0	6.1		4.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	18	7	15	17	87	4.4
TOT PCT	31.6	12.3	26.3	29.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, MM >4/8)
AND OCCURRENCE OF NH <4/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ 7999	NH <4/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.3	4.4	3.1	.0	.0	.0	.0	8.8	
NE	.0	.0	.0	.4	.9	1.8	.0	.0	.0	.0	1.8	
E	.0	.0	.0	.0	6.6	.0	.0	.0	.0	.0	6.6	
SE	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	1.8	
S	.0	.0	.0	1.3	.0	1.8	.0	.0	.0	.0	3.1	
SW	.0	.0	.0	.4	2.2	1.8	.0	.0	.0	.0	4.4	
W	.0	.0	1.8	.0	1.3	1.8	1.8	.0	.0	.0	6.7	
NW	1.8	.0	.0	1.8	2.2	.4	2.8	.0	1.8	.0	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	1	0	1	3	11	6	9	0	1	1	32	87
TOT PCT	1.0	.0	1.8	3.3	12.3	10.5	3.3	.0	1.8	1.8	36.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>3000	>0
>6500	1.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>5000	1.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
>3500	3.3	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>2000	14.0	15.0	17.3	17.3	17.3	17.3	17.3	17.3
>1000	20.1	35.1	36.8	36.8	36.8	36.8	36.8	36.8
>500	33.3	40.4	42.1	42.1	42.1	42.1	42.1	42.1
>300	33.3	42.1	43.9	43.9	43.9	43.9	43.9	43.9
>150	33.3	42.1	43.9	43.9	43.9	43.9	43.9	43.9
>50	36.0	44.0	45.6	45.6	45.6	45.6	45.6	45.6
TOTAL	21	25	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 17

PCT FREQ NH <4/8: 36.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.9	19.7	11.9	4.6	4.9	3.3	9.0	0.2	29.0	61

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

TABLE 8

AREA 0016 MAGELLAN STRAIT EAST
51.05 65.5WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
	TOT %	.5	.5	.0	.0	.0	.0	1.1	.0	.0	.0	2.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1	
5<10	PCP	1.1	1.3	4.0	1.1	.5	1.1	.0	.0	.0	.0	9.6	
	NO PCP	1.6	1.6	.5	.5	1.6	3.3	6.1	5.1	.0	.0	22.3	
	TOT %	2.7	2.9	4.5	1.6	2.1	4.4	6.6	5.1	.0	.0	31.9	
10+	PCP	.0	1.1	1.1	.0	.0	.0	1.1	.0	.0	.0	3.2	
	NO PCP	10.4	1.6	.0	1.6	6.9	6.4	22.1	11.7	.0	.0	60.6	
	TOT %	10.4	2.7	1.1	1.6	6.9	6.4	22.1	12.8	.0	.0	63.8	
TOT OBS													
TOT PCT													
94													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	1.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	1.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	3.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.0	1.0	.5	.5	.0	.0	1.5	.5	.0	.0	5.1	
	11-21	.0	1.3	3.8	1.0	2.0	3.0	2.8	4.3	.0	.0	18.2	
	22+	1.5	.5	.0	.0	.0	3.0	2.0	.0	.0	.0	7.1	
	TOT %	2.5	2.8	4.3	1.5	2.0	6.1	6.3	4.8	.0	.0	30.3	
10+	0-3	.0	.0	.0	.5	.5	.0	1.0	.0	.0	.0	2.0	
	4-10	4.5	.5	.0	1.0	1.8	1.3	1.0	2.5	.0	.0	12.1	
	11-21	3.8	2.0	1.0	.0	3.3	1.8	11.4	6.1	.0	.0	29.3	
	22+	1.5	.5	.0	.0	1.0	3.0	7.6	4.8	.0	.0	18.2	
	TOT %	9.8	2.5	1.0	1.5	6.6	6.1	21.0	13.1	.0	.0	61.6	
TOT OBS													
TOT PCT													
99													

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973AREA 0016 MAGELLAN STRAIT EAST
51.65 65.5W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.1	28.6	7.1	.0	.0	7.1	.0	50.0	50.0	14
06009	9.1	.0	.0	9.1	18.2	18.2	.0	.0	.0	.0	54.5	49.5	11
12015	.0	.0	5.9	5.9	11.8	.0	5.9	.0	.0	.0	29.4	70.6	17
18021	.0	.0	.0	.0	17.6	17.6	5.9	.0	.0	5.9	47.1	59.9	17
TOT PCT	1 1.7	0 .0	1 1.7	3 5.1	11 18.6	6 10.2	2 3.4	0 .0	1 1.7	1 1.7	26 44.1	33 55.9	59 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.0	3.7	.0	7.4	25.9	63.0	27
06009	.0	5.0	.0	5.0	40.0	50.0	20
12015	3.4	.0	.0	.0	37.9	58.6	29
18021	6.7	.0	.0	.0	17.4	73.9	23
TOT	3	2	0	3	30	61	99
PCT	3.0	2.0	.0	3.0	30.3	61.6	100.0

TABLE 12

CUMULATIVE PCT PCT RANGES OF VSBY (NM) AND/OR
CEILING : FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	15.4	38.5	46.2	13
06009	9.1	9.1	18.2	36.4	45.5	11
12015	.0	5.9	11.8	17.6	70.6	17
18021	.0	.0	.0	50.0	50.0	16
TOT	1	2	6	20	31	57
PCT	1.8	3.5	10.5	35.1	54.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	1.0	1.0	3.1	9.2	3.1	14	14.4
40/44	.0	.0	.0	2.1	5.2	17.5	22.7	17.5	63	64.9
35/39	.0	.0	.0	2.1	4.1	9.2	6.2	.0	19	19.0
30/34	.0	.0	.0	.0	.0	.0	1.0	.0	1	1.0
TOTAL	0	0	1	5	8	24	32	27	97	100.0
PCT	.0	.0	1.0	5.2	8.2	24.7	33.0	27.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	4.4	1.3	1.8	.0	.0	.0	3.4	3.4	.0	.0
40/44	9.5	4.4	3.6	2.6	4.6	4.9	21.9	13.4	.0	.0
35/39	1.8	.3	.0	.0	2.6	4.4	6.7	3.9	.0	.0
30/34	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0
TOTAL	15.7	5.9	5.4	2.6	7.2	9.3	32.0	21.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	48	45	45	41	36	34	34	41.0	30
06009	45	44	44	41	36	34	34	40.7	26
12015	46	47	46	41	35	34	34	41.2	37
18021	48	47	47	42	35	31	31	41.8	31
TOT	48	47	46	41	35	34	31	41.2	124

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.0	12.0	24.0	20.0	40.0	85	25		
06009	.0	5.6	5.6	22.2	38.9	27.8	83	18		
12015	.0	10.0	6.7	16.7	33.3	33.3	82	30		
18021	.0	4.2	8.3	17.5	41.7	8.3	79	24		
TOT	0	6	8	24	32	27	82	97		

JULY

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1926-1973

TABLE 17

AREA 0016 MAGELLAN STRAIT EAST
51.6S 65.3WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITH-OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	TOT	N FOG	NO FOG
4	.0	.0	3.4	2.3	5	.0	5.7
3	.0	.0	1.1	2.3	3	.0	3.4
2	.0	.0	3.4	4.5	7	1.1	6.8
1	.0	.0	5.7	1.1	6	1.1	5.7
0	.0	1.1	12.9	1.1	13	.0	14.8
-1	1.1	4.5	9.1	.0	13	3.4	11.4
-2	.0	2.3	11.4	.0	12	2.3	11.4
-3	.0	6.8	.0	1.1	7	.0	8.0
-4	.0	6.8	3.4	.0	9	2.3	8.0
-5	.0	3.4	2.3	.0	5	.0	5.7
-6	2.3	3.4	.0	.0	5	.0	5.7
-7/-8	1.1	.0	.0	.0	1	.0	1.1
-11/-13	2.3	.0	.0	.0	2	.0	2.3
TOTAL	6		46		88	9	79
PCT	6.8	28.4	52.3	12.5	100.0	10.2	89.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	6.1	3.0	.0	.0	.0	9.1	.0	.0	3.0	.0	.0	.0	3.0
3-4	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	3.8	.0	.0	.0	3.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	3.0	2.3	.0	.0	13.6	.0	.0	6.8	.8	.0	.0	7.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.4	.0	.0	.0	11.4	.0	3.0	.0	.0	.0	.0	3.0

PERIOD: (OVER-ALL) 1963-1973

JULY

AREA 0016 MAGELLAN STRAIT EAST
51.83 65.34

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.8
3-4	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.8	.0	3.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	3.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0	3.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.3	3.0	.0	.0	5.3	.0	.0	.8	6.8	4.8	.0	12.1

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.1	.0	.0	.0	9.8	.0
5-6	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	6.1	10.6	.0	.0	16.7	.0	.0	.0	3.8	.0	.0	3.8	.0
8-9	.0	.0	.0	2.3	2.3	.0	4.5	.0	.0	.0	.8	3.0	.0	3.8	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	9.1	19.9	4.3	.0	29.3	.0	3.8	6.1	4.5	3.0	.0	17.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	9.1	15.2	.0	.0	.0	24.2	
3-4	.0	6.1	12.1	3.0	.0	.0	21.2	
5-6	.0	.0	6.1	3.0	.0	.0	9.1	
7	.0	.0	6.1	15.2	.0	.0	21.2	
8-9	.0	.0	.0	6.1	6.1	.0	12.1	
10-11	.0	.0	.0	6.1	.0	.0	6.1	
12	.0	.0	.0	.0	6.1	.0	6.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	19.2	39.4	39.3	12.1	.0	100.0	33

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<1	.0	5.7	13.2	11.3	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	4
1-2	.0	.0	3.8	5.7	17.0	7.3	3.8	1.9	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
3-4	.0	.0	.0	3.8	1.9	1.9	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
5-6	.0	.0	.0	1.9	5.7	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
7	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	.0	5.7	17.0	22.6	24.3	11.3	5.7	5.7	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
PCT	.0	5.7	17.0	22.6	24.3	11.3	5.7	5.7	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.6W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WNC CIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.1	.0	.0	.0	83.9
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	27.3	.0	.0	.0	.0	.0	.0	17.3	.0	.0	9.1	.0	.0	.0	63.6
SE	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	35.3	.0	.0	.0	52.9
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	12.8	.0	.0	.0	.0	.0	.0	12.8	.0	.0	8.3	.0	.0	.0	78.7
W	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	94.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.1	.0	.0	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.2	.0	.0	.0	.0	.0	.0	5.2	.0	.0	9.1	.0	.0	.0	85.7
TOT OBS	77														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST DUST SNOW	NO SIG WEA
0000Z	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	.0	8.7	.0	.0	.0	.0	82.6
0800Z	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	14.3	.0	.0	.0	.0	78.6
1200Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	87.3
1800Z	5.9	.0	.0	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	94.1
TOT PCT	5.1	.0	.0	.0	.0	.0	.0	5.1	.0	.0	9.0	.0	.0	.0	.0	85.9
TOT OBS	78															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WHD DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.9	3.8	11.7	.6	.0	.0		20.1	12.8	23.0	12.3	35.0	23.0	29.4	.0	9.1	16.7	
NE	.0	3.9	3.2	.6	.0	.0		7.8	13.1	.0	6.3	.0	18.8	5.9	14.9	.0	33.3	
E	.0	2.6	1.9	2.6	.0	.0		7.1	16.0	3.3	23.0	.0	18.8	.0	21.4	.0	.0	
SE	.0	2.6	1.0	1.9	.0	.0		5.5	19.7	9.3	6.3	.0	6.3	7.4	7.1	9.1	.0	
S	.0	1.6	2.3	1.3	1.3	.0		6.5	21.3	6.7	.0	.0	.0	17.6	.0	9.1	.0	
SW	1.3	4.9	4.5	4.5	.0	.0		15.3	14.7	21.7	28.1	20.0	.0	5.9	21.4	19.9	16.7	
W	1.9	6.7	10.1	7.1	.0	.0		25.6	19.2	23.3	15.6	40.0	25.0	14.7	35.7	36.4	33.3	
NW	1.3	1.9	6.8	.6	.0	.0		10.7	15.3	16.7	6.3	5.0	6.3	13.2	.0	20.3	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALP	1.3							.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	6	23	32	13	1	0	77	1.3	14.8	.0	.0	.0	.0	5.9	.0	.0	.0	
TOT PCT	7.8	29.9	41.4	19.3	1.3	.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	7-16	17-27	28-40	41+				00	03	06	12	18
N	1.9	13.3	4.2	.6	.0		20.1	12.8	20.7	28.8	20.8	11.8	
NE	.0	5.2	2.6	.0	.0		7.8	13.1	2.2	1.5	8.3	11.8	
E	.0	3.9	3.2	.0	.0		7.1	16.0	10.9	11.5	6.3	.0	
SE	.0	2.9	2.6	.0	.0		5.5	19.7	4.3	3.8	7.3	5.9	
S	.0	3.2	1.3	.0	1.3		6.5	21.3	4.3	.0	12.3	5.9	
SW	1.3	3.9	5.3	1.3	.0		13.3	14.7	23.9	7.7	10.4	16.2	
W	1.9	8.8	8.4	2.6	.0		25.6	19.2	20.7	30.8	20.8	33.3	
NW	1.3	4.2	4.5	.6	.0		10.7	15.3	13.0	5.8	9.4	13.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALP	1.3						1.3	.0	.0	.0	.0	.0	
TOT OBS	12	35	25	4	1	77	1.3	14.8	23	13	24	17	
TOT PCT	15.6	45.5	32.5	5.2	1.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

AREA 0010 MAGELLAN STRAIT EAST
51.93 65.0W

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (OPT)

HOUR	CALM	WIND			SPEED (KNOTS)		48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-29	34-47				
0000	.0	8.7	26.1	39.1	26.1	.0	.0	15.6	100.0	23
0600	.0	23.1	30.8	30.8	15.4	.0	.0	12.6	1.0	10
1215	4.7	.0	41.7	37.5	12.9	4.2	.0	14.4	100.0	24
1811	.0	.0	17.6	36.8	23.9	.0	.0	13.1	100.0	17
TOT	1	9	23	32	19.5	1	.0	14.8		77
PCT	1.3	6.5	29.9	41.6	19.5	1.3	.0	100.0		

TABLE A

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $< 4/8$ BY WIND DIRECTION

BY WIND DIRECTION						AND OCCURRENCE OF NH 4750 FT BY WIND DIRECTION												
WMD DIR	0-2	3-4	5-7	8 & OVER	TOTAL PCT	MEAN CLOUD COVER	000 149	130 299	300 499	400 599	1000 1999	2000 3499	2500 4999	3000 6499	3500 7999	4000+	NH 4750 FT ANY HGT	TOTAL OBS
M	8.0	2.3	9.1	4.5		4.5	.0	.0	.0	2.3	1.7	1.7	.0	.0	.0	.0	18.2	
NE	.0	.0	2.3	.0		7.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	
E	.0	.0	.0	1.1		8.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
SE	.0	.0	2.3	1.1		7.2	.0	.0	.0	.0	.0	3.4	.0	.0	.0	.0	.0	
S	.0	2.3	9.1	1.1		5.6	.0	.0	.0	2.3	1.1	1.7	1.7	.0	.0	.0	2.3	
SW	3.4	2.3	9.1	2.3		4.6	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	10.8	
W	9.1	9.1	10.2	1.1		3.8	.0	.0	.0	1.7	5.7	.0	1.7	.0	.0	.0	17.6	
NW	5.7	1.1	2.3	8.0		5.1	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	10.2	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	2.3	.0		6.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	
TOT OBS	10	8	18	8		4.8	.0	.0	.0	5	6	9	9	0	0	0	24	
TOT PCT	22.7	18.2	40.9	18.2	100.0		.0	.0	.0	11.4	13.6	9.1	6.8	.0	.0	.0	39.1	100.0

CUMULATIVE PCT PRBO OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM 54/0) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> OR >10	> OR >9	> OR >8	> OR >1	> OR >1/2	> OR >1/4	> OR >50YD	> OR >0
> OR >4500	.0	.0	.0	.0	.0	.0	.0	.0
> OR >3000	.0	.0	.0	.0	.0	.0	.0	.0
> OR >1500	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
> OR >2000	13.3	13.6	13.6	13.6	13.6	13.6	13.6	13.6
> OR >1000	22.2	26.7	26.7	28.9	28.9	28.9	28.9	28.9
> OR >600	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
> OR >300	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
> OR >150	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
> OR >0	31.1	37.8	37.8	40.0	40.0	40.0	40.0	40.0
TOTAL	14	17	17	18	18	18	18	18

PCT FREQ NH CS/BI 60.0

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTH)

0	1	2	3	4	5	6	7	8	DBSCO	TOTAL CNS
14.6	12.9	16.7	8.3	4.2	6.3	10.4	6.3	20.8	.0	44

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AUGUST

AREA 0010 MAGELLAN STRAIT EAST
51.55 63.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	1.9	.6	.0	.0	.0	.0	.0	.0	2.6	
	NO PCP	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
	TOT %	2.6	.0	1.9	.6	.0	.0	.0	.0	.0	.0	5.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	2.6	
	TOT %	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	2.6	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3	
	TOT %	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	4.2	5.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	28.6	
	TOT %	4.2	5.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	28.6	
10+	PCP	.0	.0	.0	.0	.0	1.9	.6	.0	.0	.0	2.6	
	NO PCP	12.7	2.6	2.6	2.9	4.5	9.4	14.6	9.1	.0	1.3	59.7	
	TOT %	12.7	2.6	2.6	2.9	4.5	11.4	15.3	9.1	.0	1.3	62.3	
TOT OBS													
TOT PCT													
		20.1	7.8	7.1	5.5	6.5	15.3	25.6	10.7	.0	1.3	100.0	77

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	4-10	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
	11-21	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	1.3	
	22+	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	2.6	.0	1.9	.6	.0	.0	.0	.0	.0	.0	5.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	1.3	
	4-10	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.6	.6	.6	.6	.0	.0	2.6	
2<5	0-3	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.3	
5<10	0-3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	
	4-10	.0	1.3	.6	1.9	.0	.0	3.9	.0	.0	.0	7.8	
	11-21	4.2	5.2	1.3	.0	.0	1.9	1.9	.3	.0	.0	13.0	
	22+	.0	.6	.6	.0	1.3	.0	3.9	.0	.0	.0	6.3	
	TOT %	4.2	5.2	2.6	1.9	1.3	3.2	9.7	.3	.0	.0	28.6	
10+	0-3	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	2.6	
	4-10	4.5	2.6	1.9	.6	1.0	4.2	2.6	1.9	.0	.0	17.3	
	11-21	7.5	.0	.0	.3	2.3	2.6	8.1	6.3	.0	.0	27.3	
	22+	.6	.0	.6	1.9	1.3	4.3	3.2	.6	.0	.0	12.0	
	TOT %	12.7	2.6	2.6	2.9	4.5	11.4	15.3	9.1	.0	1.3	62.3	
TOT OBS													
TOT PCT													
		20.1	7.8	7.1	5.5	6.5	15.3	25.6	10.7	.0	1.3	100.0	77

AUGUST

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AREA 0016 MAGELLAN STRAIT EAST
91.95 65.8W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	.0	.0	.0	14.3	.0	7.1	7.1	.0	.0	.0	28.6	71.4	14
0600	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	20.0	80.0	5
1200	.0	.0	.0	19.4	23.1	15.4	15.4	.0	.0	.0	69.2	30.8	13
1800	.0	.0	.0	7.7	15.4	7.7	.0	.0	.0	.0	30.8	69.2	13
TOT	0	0	0	5	6	4	3	0	0	0	18	27	45
PCT	.0	.0	.0	11.1	13.3	8.9	6.7	.0	.0	.0	40.0	60.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000	.0	4.3	4.3	.0	15.0	78.3	23
0600	.0	14.3	.0	7.1	35.7	42.9	14
1200	.0	4.2	4.2	.0	41.7	50.0	24
1800	.0	.0	.0	.0	23.5	76.5	17
TOT	0	4	2	1	22	49	78
PCT	.0	5.1	2.6	1.3	28.2	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000	.0	.0	14.3	14.3	71.4	14
0600	.0	.0	.0	20.0	80.0	5
1200	.0	.0	23.1	46.2	30.8	13
1800	.0	.0	7.7	23.1	69.2	13
TOT	0	0	6	12	27	45
PCT	.0	.0	13.3	26.7	60.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/54	.0	.0	.0	.0	1.6	.0	1.6	.0	2	3.3
45/49	.0	.0	.0	.0	.0	8.2	8.2	1.6	11	18.0
40/44	.0	.0	.0	3.3	4.9	14.8	9.8	16.4	30	49.2
35/39	.0	.0	.0	1.6	9.3	8.2	6.6	9.8	18	29.5
TOTAL	0	0	0	3	6	19	16	17	61	100.0
PCT	.0	.0	.0	4.9	9.8	31.1	26.2	27.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/54	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0
45/49	.0	.0	.0	.0	.0	.0	4.9	3.7	.0	.0
40/44	13.3	2.3	.0	.0	2.0	8.6	16.0	4.5	.0	1.6
35/39	.0	.8	1.6	2.3	6.1	7.0	11.1	.4	.0	.0
TOTAL	23.0	3.3	1.6	2.9	8.2	16.0	31.6	11.9	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	48	47	46	40	37	35	35	40.7	23
0600	44	43	43	39	36	34	34	39.0	14
1200	53	52	49	41	31	31	31	40.6	24
1800	51	50	50	40	36	34	34	41.6	17
TOT	53	52	47	40	36	31	31	40.8	78

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	.0	11.1	27.8	38.9	22.2	82	18		
0600	.0	.0	11.1	22.2	22.2	44.4	83	9		
1200	.0	3.0	19.0	39.0	10.0	33.0	80	20		
1800	.0	13.3	.0	33.3	33.3	20.0	79	15		
TOT	0	3	6	19	14	18	81	62		

PERIOD: (PRIMARY) 1941-1972
(OVER-ALL) 1924-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
51.95 65.8W

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	M FOG	WD FOG
9/10	.0	.0	.0	.0	.0	1.4	.0	1	.0	1.4
7/8	.0	.0	.0	.0	.0	1.4	.0	1	.0	1.4
6	.0	.0	.0	.0	1.4	.0	.0	1	.0	1.4
5	.0	.0	.0	2.7	1.4	.0	.0	3	.0	4.1
4	.0	.0	.0	2.7	2.7	.0	.0	4	.0	5.4
3	.0	.0	.0	2.7	4.1	.0	1.4	6	.0	8.1
2	.0	.0	1.4	6.8	1.4	.0	.0	7	.0	9.9
1	.0	.0	.0	1.4	1.4	.0	.0	2	.0	2.7
0	.0	.0	4.1	6.8	1.4	.0	.0	9	.0	12.2
-1	.0	.0	4.1	4.1	.0	.0	.0	6	.0	8.1
-2	.0	.0	6.8	5.4	.0	.0	.0	9	2.7	9.9
-3	.0	.0	4.1	.0	.0	.0	.0	3	.0	4.1
-4	.0	1.4	9.5	.0	.0	.0	.0	8	4.1	9.9
-5	.0	.0	5.4	.0	.0	.0	.0	4	.0	5.4
-6	.0	2.7	2.7	.0	.0	.0	.0	4	.0	5.4
-7/-8	.0	1.4	1.4	.0	.0	.0	.0	2	.0	2.7
-9/-10	2.7	1.4	.0	.0	.0	.0	.0	3	2.7	1.4
-11/-13	.0	.0	1.4	.0	.0	.0	.0	1	.0	1.4
TOTAL	2	5	30	24	10	2	1	74	7	67
PCT	2.7	6.8	40.5	32.4	13.5	2.7	1.4	100.0	9.5	90.5

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	H							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.5	.0	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	5.8	.0	.0	.0	.0	5.8	.0	1.9	.0	.0	.0	.0	1.9	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	7.7	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.8	.0	.0	.0	.0	5.8	.0	9.6	1.9	9.6	.0	.0	21.2	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.7	.0	.0	.0	11.5	.0
3-4	.0	7.7	19.2	.0	.0	.0	26.9	.0	7.7	1.9	.0	.0	.0	9.6	.0
5-6	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	7.7	.0	.0	7.7	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.7	19.2	13.5	.0	.0	40.4	.0	11.5	9.6	.0	.0	.0	21.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	7.7	.0	.0	.0	.0	7.7	.0
1-2	.0	23.1	7.7	.0	.0	.0	30.8	.0
3-4	.0	19.4	23.1	.0	.0	.0	38.5	.0
5-6	.0	.0	.0	7.7	.0	.0	7.7	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	7.7	.0	.0	7.7	.0
10-11	.0	.0	.0	7.7	.0	.0	7.7	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	46.2	30.8	23.1	.0	.0	100.0	13

PERIOD: (OVER-ALL) 1963-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.0	13.3	10.0	13.3	3.3	13.3	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
6-7	.0	.0	3.3	3.3	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
8-9	.0	.0	.0	3.3	.0	.0	10.0	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
10-11	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDEX	.0	.0	.0	3.3	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
TOTAL	0	4	4	8	3	5	4	1	1	0	0	0	0	0	0	0	0	0	0	0	30	6
PCT	.0	13.3	13.3	26.7	10.0	16.7	13.3	3.3	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1934-1972
(OVER-ALL) 1922-1972

AREA 0016 MAGELLAN STRAIT EAST
51.6S 66.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.3	.0	.0	.0	.0	.0	.0	4.3	.0	.0	15.2	.0	.0	.0	80.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31.6	.0	.0	.0	68.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29.3	.0	.0	.0	68.7
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	1.5	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	98.5
W	.0	7.0	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	93.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	.0	.0	.0	95.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.7	.0	.0	8.0	.0	.0	.0	89.3
TOT OBS:	79														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZD PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THOR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0300	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.5	.0	.0	.0	81.5
0600	.0	5.9	.0	.0	.0	.0	.0	5.9	.0	.0	5.9	.0	.0	.0	88.2
1215	9.9	.0	.0	.0	.0	.0	.0	9.9	.0	.0	3.0	.0	.0	.0	88.2
1821	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	94.4
TOT PCT	1.3	1.3	.0	.0	.0	.0	.0	2.5	.0	.0	10.1	.0	.0	.0	87.3
TOT OBS:	79														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.1	12.5	12.8	3.1	1.1	.0		30.7	14.2		28.3	25.0	21.2	33.1	42.3	37.5	14.6	34.4
NE	.0	3.4	9.1	.0	.0	.0		5.8	10.6		3.3	9.1	18.4	12.8	.0	.0	10.4	.0
E	.0	1.1	.6	.0	.0	.0		1.7	7.6		3.3	.0	.0	.0	.0	.0	.0	12.9
SE	.0	2.3	.0	.0	.0	.0		2.3	9.0		.0	.0	.0	12.5	.0	12.5	.0	.0
S	.6	1.4	1.7	.9	.0	.0		4.8	12.6		3.3	4.8	3.8	6.3	9.8	.0	6.3	6.3
SW	.6	7.4	11.1	3.7	.0	.0		22.7	13.1		23.0	9.1	28.8	6.3	25.0	37.5	39.4	6.3
W	.7	3.7	8.4	3.4	.0	.0		14.8	18.1		11.7	13.6	26.9	.0	15.4	.0	25.0	12.5
NW	.0	8.0	9.1	.6	.0	.0		19.6	11.9		23.0	28.3	3.8	9.4	11.3	.0	8.3	15.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0		.0	9.1	.0	.0	.0	12.5	.0	12.5
TOT OBS	3	35	39	12	1	0	88		13.2		15	11	13	8	13	8	12	3
TOT PCT	5.7	39.8	39.8	13.6	1.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	6.3	10.8	11.4	2.3	.0			30.7	14.2		26.9	33.3	40.5	22.5	
NE	1.1	5.1	.3	.0	.0			6.5	10.6		3.8	14.3	.0	6.3	
E	1.1	.6	.0	.0	.0			1.7	7.6		1.9	.0	.0	5.0	
SE	.0	2.3	.0	.0	.0			2.3	9.0		.0	4.8	4.8	.0	
S	.6	3.1	.9	.0	.0			4.8	12.6		3.8	4.8	3.6	6.3	
SW	4.5	14.2	4.0	.0	.0			22.7	13.1		18.3	20.2	29.8	23.8	
W	1.7	4.8	7.4	1.1	.0			14.8	18.1		12.5	16.7	9.8	20.0	
NW	2.8	6.3	4.3	.0	.0			13.6	11.9		26.9	6.0	7.1	11.3	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.4							3.4	.0		3.8	.0	4.8	5.0	
TOT OBS	19	41	25	3	0	88			13.2		38	21	21	20	
TOT PCT	21.6	46.6	28.4	3.4	.0			100.0			100.0	100.0	100.0	100.0	

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AREA 0010 MAGELLAN STRAIT EAST
91.65 66.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT PREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	3.0	.0	90.0	38.5	7.7	.0	.0	12.3	100.0	26
0600Z	.0	4.8	38.1	47.6	9.5	.0	.0	12.9	100.0	21
1201Z	4.8	.0	33.3	28.6	28.6	4.8	.0	10.5	100.0	21
1802Z	3.0	3.0	33.0	43.0	10.0	.0	.0	11.2	100.0	20
TOT	3	2	33	33	12	1	0	13.2		88
PCT	3.4	2.3	39.6	39.6	13.6	1.1	.0		100.0	

TABLE 5

PCT PRPS OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.8	3.4	8.5	2.9		5.2
NE	.4	.0	.0	4.8		7.2
E	.0	.0	.0	.0		.0
SE	.0	.0	.0	.0		.0
S	4.0	1.7	.0	.0		1.6
SW	12.3	2.8	9.1	3.1		3.7
W	8.3	6.3	4.3	4.0		4.2
NW	4.0	4.0	.4	.4		2.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	16	8	10	10	44	4.2
TOT PCT	36.4	18.2	22.7	22.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT; NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	2.3	.0	2.3	2.3	.0	1.7	18.8	
NE	.0	.0	.0	.0	2.3	2.3	.0	.0	.0	.0	.6	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	2.3	.0	2.3	.6	.0	.0	.0	.0	.0	24.4	
W	.0	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	19.3	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	1	1	1	3	1	1	1	0	1	34	44
TOT PCT	.0	2.3	2.3	2.3	6.8	2.3	2.3	2.3	.0	2.3	77.3	100.0

TABLE 7

CUMULATIVE PCT PRPS OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>80YD	>0
> OR >6500	.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
> OR >4000	.0	2.3	4.3	4.3	4.3	4.3	4.3	4.3
> OR >3500	.0	2.3	6.8	6.8	6.8	6.8	6.8	6.8
> OR >2000	2.3	4.3	9.1	9.1	9.1	9.1	9.1	9.1
> OR >1000	6.8	11.4	13.9	13.9	13.9	13.9	13.9	13.9
> OR >600	9.1	13.6	18.2	18.2	18.2	18.2	18.2	18.2
> OR >300	11.4	13.9	20.3	20.3	20.3	20.3	20.3	20.3
> OR >150	11.4	13.9	22.7	22.7	22.7	22.7	22.7	22.7
> OR >0	11.4	13.9	22.7	22.7	22.7	22.7	22.7	22.7
TOTAL	3	7	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 44

PCT PRPS NM <5/8: 77.3

TABLE 7A

PERCENTAGE PRPS OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.2	21.7	21.7	13.0	6.5	2.2	4.3	.0	13.2	.0	46

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AREA 0016 MAGELLAN STRAIT EAST
51.65 66.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.7
	TOT %	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.7
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.7	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.7
	TOT %	.7	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
	TOT %	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
5<10	PCP	1.4	.0	.0	.0	.0	.3	1.0	.0	.0	.0	.0	2.7
	NO PCP	15.4	1.4	1.4	.0	.0	.0	.0	2.4	.0	1.4	1.4	21.9
	TOT %	16.8	1.4	1.4	.0	.0	.3	1.0	2.4	.0	1.4	1.4	24.7
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	12.7	3.1	.0	2.7	5.5	20.2	13.7	9.2	.0	1.4	1.4	68.5
	TOT %	12.7	3.1	.0	2.7	5.5	20.2	13.7	9.2	.0	1.4	1.4	68.5
TOT OBS													
TOT PCT		31.5	6.5	2.1	2.7	5.5	21.9	14.7	12.3	.0	2.7	100.0	73

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
	11-21	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	2.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	2.5	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	3.8
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	1.3
	4-10	6.3	1.3	1.3	.0	.0	.3	.9	1.3	.0	.0	.0	11.4
	11-21	4.4	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	6.3
	22+	4.7	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	5.1
	TOT %	15.5	1.3	1.3	.0	.0	.3	2.2	2.2	.0	1.3	1.3	24.1
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.5	2.5
	4-10	3.8	.0	.0	2.5	1.6	5.4	3.2	6.3	.0	.0	.0	22.8
	11-21	7.9	2.8	.0	.0	1.9	11.1	4.7	1.9	.0	.0	.0	30.4
	22+	.0	.0	.0	.0	.9	4.1	6.0	.3	.0	.0	.0	11.4
	TOT %	11.7	2.8	.0	2.5	5.1	21.2	13.9	8.3	.0	1.3	1.3	67.1
TOT OBS													
TOT PCT		31.6	6.0	1.9	2.5	5.1	22.8	16.1	11.4	.0	2.5	100.0	79

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51.65 66.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	130 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	8.3	.0	8.3	.0	.0	.0	.0	.0	.0	16.7	83.3	12
06009	.0	.0	8.3	.0	16.7	.0	.0	8.3	.0	8.3	41.7	58.3	12
12015	.0	.0	.0	.0	7.7	.0	7.7	.0	.0	.0	15.4	84.6	13
18021	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	11.1	88.9	9
TOT	0	1	1	1	3	1	1	1	0	1	10	36	46
PCT	.0	2.2	2.2	2.2	6.5	2.2	2.2	2.2	.0	2.2	21.7	78.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	7.7	3.8	.0	3.8	19.2	65.4	26
06009	.0	.0	.0	3.3	31.6	65.2	19
12015	.0	5.3	.0	3.3	31.6	57.9	19
18021	3.6	.0	.0	.0	11.1	83.3	18
TOT	3	2	0	3	19	55	82
PCT	3.7	2.4	.0	3.7	23.2	67.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND3+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	8.3	16.7	.0	83.3	12
06009	.0	9.1	18.2	27.3	54.4	11
12015	.0	.0	8.3	8.3	83.3	12
18021	.0	.0	.0	11.1	88.9	9
TOT	0	2	3	3	36	46
PCT	.0	4.3	11.4	11.4	77.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP °	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	1.4	1.4	1.4	.0	3	4.3
45/49	.0	.0	.0	1.4	4.3	4.3	5.7	1.4	12	17.1
40/44	.0	.0	.0	1.4	2.9	13.7	20.0	30.0	49	70.0
35/39	.0	.0	.0	.0	.0	.0	1.4	5.7	3	7.1
30/34	.0	.0	.0	.0	.0	.0	.0	1.4	1	1.4
TOTAL	0	0	0	2	6	19	20	27	70	100.0
PCT	.0	.0	.0	2.9	8.6	21.4	28.6	38.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
30/34	2.3	.4	.0	.0	.0	.0	1.4	.0	.0	.0
45/49	8.6	.0	1.4	.0	.0	1.4	2.9	2.9	.0	.0
40/44	20.4	7.1	.0	.0	2.9	17.9	8.9	11.4	.0	1.4
35/39	.0	.7	.7	.0	.7	3.6	1.4	.0	.0	.0
30/34	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0
TOTAL	31.4	8.2	2.1	.0	3.6	22.9	19.1	14.3	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	45	45	42	38	37	37	41.9	31
06009	46	45	44	42	39	37	37	42.1	21
12015	54	53	52	42	38	34	34	43.2	23
18021	53	52	47	43	40	40	40	44.0	20
TOT	54	53	47	42	38	34	34	42.7	95

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	4.3	18.2	40.9	36.4	86	22
06009	.0	5.9	.0	17.8	29.4	47.1	85	17
12015	.0	.0	11.1	16.7	22.2	50.0	83	18
18021	.0	5.9	17.8	33.3	17.6	23.3	78	17
TOT	0	2	6	16	21	29	84	74

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N PCG	NO FOG
9/10	.0	.0	.0	.0	1.3	1.3	2	.0	2.6
7/8	.0	.0	.0	1.3	.0	.0	1	.0	1.3
6	.0	.0	.0	1.3	.0	.0	1	.0	1.3
5	.0	.0	1.3	2.6	.0	.0	3	.0	3.9
4	.0	.0	.0	8.3	2.6	.0	7	.0	9.1
3	.0	.0	7.8	2.6	.0	.0	8	.0	10.4
2	.0	1.3	3.2	1.3	.0	.0	6	.0	7.8
1	.0	.0	18.2	2.6	.0	.0	18	2.6	18.2
0	.0	2.6	13.0	2.6	.0	.0	14	3.2	13.0
-1	.0	1.3	3.2	1.3	.0	.0	6	2.6	3.2
-2	.0	3.9	3.2	.0	.0	.0	7	.0	9.1
-3	.0	3.9	.0	.0	.0	.0	3	.0	3.9
-4	.0	2.6	.0	.0	.0	.0	2	.0	2.6
-7/-8	1.3	.0	.0	.0	.0	.0	1	.0	1.3
TOTAL	1	12	48	14	1	1	77	8	69
PCT	1.3	15.6	62.3	18.2	1.3	1.3	100.0	10.4	89.6

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	7.1	3.6	.0	.0	10.7	.0	.0	4.8	.0	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.1	7.1	8.3	4.8	.0	27.4	.0	.0	4.8	.0	.0	.0	4.8

MGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
01	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1972

SEPTEMBER

AREA 0016 MAGELLAN STRAIT AST
31.0S 66.4W

TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	4.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	14.3	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	4.8	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	4.8	20.2	9.8	.0	.0	34.8	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8	.0
3-4	.0	.0	3.6	4.8	.0	.0	8.4	.0	2.4	.0	.0	.0	.0	2.4	.0
5-6	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	2.4	1.2	.0	.0	3.6	.0
8-9	.0	.0	.0	4.8	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	3.6	19.0	.0	.0	22.6	.0	7.1	2.4	1.2	.0	.0	10.7	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	4.8	9.1	.0	.0	.0	.0	13.9	.0
3-4	.0	9.1	9.1	4.8	.0	.0	22.7	.0
5-6	.0	.0	13.6	4.8	.0	.0	18.4	.0
7	.0	.0	13.6	13.6	.0	.0	27.2	.0
8-9	.0	.0	.0	4.8	.0	.0	4.8	.0
10-11	.0	.0	.0	9.1	.0	.0	9.1	.0
12	.0	.0	.0	.0	4.8	.0	4.8	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	18.2	36.4	36.4	4.8	.0	100.0	22

PERIOD: (OVER-ALL) 1960-1972

TABLE 19

PERIOD: FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.3	23.3	7.0	9.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
6-7	.0	.0	4.7	4.7	.0	2.3	4.7	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
8-9	.0	.0	2.3	.0	2.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
INDST	2.3	7.0	2.3	7.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
TOTAL	1	4	14	8	9	2	7	1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	3
PCT	2.3	9.3	32.6	16.6	11.6	4.7	16.3	2.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1937-1972
(OVER-ALL) 1927-1972

AREA 0016 MAGELLAN STRAIT EAST
91.4S 66.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	CRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.1	.0	8.1	.0	.0	.0	.0	12.2	.0	.0	.0	.0	.0	.0	87.8
NE	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	.0	.0	.0	.0	.0	77.8
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	90.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.7	1.7	.0	.0	73.6
NW	1.4	.0	.0	.0	.0	.0	.0	1.4	.0	.0	5.3	1.4	.0	.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.9	.0	1.8	.0	.0	.0	.0	2.7	.9	.0	11.5	.9	.0	.0	84.1
TOT OBS.	113														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	DUST	NO SIG WEA
0000	2.2	.0	7.7	.0	.0	.0	.0	6.9	.0	.0	12.9	.0	.0	.0	.0	80.6
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	.0	.0	.0	93.1
1200	.0	.0	3.2	.0	.0	.0	.0	3.2	.0	.0	12.9	3.2	.0	.0	.0	80.6
1800	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	12.3	.0	.0	.0	.0	83.3
TOT PCT	.9	.0	1.7	.0	.0	.0	.0	2.6	.9	.0	11.3	.9	.0	.0	.0	84.3
TOT OBS:	115															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	WIND SPEED (KNOTS)					48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
		4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	.0	6.0	3.8	2.0	.0	.0		14.8	13.3		22.9	10.0	18.8	19.0	10.4	.0	19.6	11.5
NE	.0	.8	.6	.4	.0	.0		1.8	16.5		1.0	.0	6.3	.0	2.1	.0	1.8	.0
E	.0	.8	.0	.0	.0	.0		.8	9.0		.0	.0	5.0	.0	.0	.0	.0	.0
SE	.0	.0	1.7	.8	.0	.0		2.0	13.8		.0	.0	.0	.0	6.3	.0	.0	7.7
S	.0	.8	.4	.0	.8	.0		1.8	18.5		.0	10.0	.0	.0	2.1	.0	5.4	.0
SW	.0	.4	10.0	3.0	.2	.0		21.6	16.3		28.0	20.0	18.3	29.0	20.8	39.0	17.9	15.4
W	.0	4.1	24.4	8.6	2.7	.0		39.4	18.0		40.6	40.0	32.5	49.0	40.6	62.5	35.7	42.3
NW	.0	2.0	7.6	4.8	1.0	.0		15.4	18.2		9.4	20.0	18.3	19.0	9.4	22.5	19.6	23.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		.0	.0	3.0	.0	8.3	.0	.0	.0
TOT OBS	3	26	64	27	9	0	129		16.4		24	10	20	10	24	10	14	13
TOT PCT	2.4	20.8	51.7	21.6	4.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.0	8.4	3.8	.6	.0		14.8	13.3	19.1	17.5	7.4	13.7
NE	.0	.8	.8	.2	.0		1.8	16.5	.7	4.2	1.5	.9
E	.8	.0	.0	.0	.0		.8	9.0	.0	3.3	.0	.0
SE	.0	1.2	.3	.0	.0		2.0	13.8	.0	.0	4.4	3.7
S	.0	1.2	.0	.6	.0		1.8	18.5	2.9	.0	1.5	2.8
SW	.4	11.8	7.7	2.2	.0		21.6	16.3	24.3	19.2	25.0	16.7
W	2.0	16.4	16.8	3.4	.8		39.4	18.0	40.4	36.7	41.2	38.9
NW	.4	7.4	6.6	1.0	.0		15.4	18.2	12.5	15.8	13.2	21.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						2.4	.0	.0	3.3	3.9	.0
TOT OBS	10	59	49	10	1	124		16.4	34	50	34	27
TOT PCT	8.0	47.2	36.0	8.0	.8		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1957-1972
(OVER-ALL) 1927-1972AREA 0016 MACELLAN STRAIT EAST
51.45 66.4W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

WIND	0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	MEAN	PCT FREQ	TOTAL OBS
0000	0.0	0.0	14.7	61.8	23.5	0.0	0.0	16.4	100.0	34			
0600	3.3	0.0	30.0	40.0	20.0	6.7	0.0	16.5	100.0	30			
1200	5.9	0.0	17.6	47.1	23.5	5.9	0.0	16.8	100.0	34			
1800	0.0	0.0	22.2	55.6	16.5	3.7	0.0	13.6	100.0	27			
TOT	3	0	26	64	27	5	0	16.4		123			
PCT	2.4	0.0	20.8	51.2	21.6	4.0	0.0	100.0					

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.9	0.0	8.2	8.2		5.4
NP	0.0	0.0	2.2	1.7		7.3
E	0.0	0.0	1.7	0.0		6.0
SE	0.0	0.0	0.0	4.5		8.0
S	0.0	0.0	1.3	0.0		6.8
SW	5.6	3.4	6.9	4.3		4.6
W	10.8	1.7	15.1	4.3		4.2
NW	4.3	1.7	0.0	2.2		3.0
VAP	0.0	0.0	0.0	0.0		0.0
CALN	1.7	0.0	1.7	0.0		3.5
TOT OBS	17	4	22	19	99	4.8
TOT PCT	29.3	6.9	37.9	29.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <4/8	TOTAL
149	299	599	999	1999	3999	4999	6499	7999		ANY HGT	OBS
N	0.0	0.0	3.0	3.0	1.7	0.0	0.0	0.0	3.0	11.4	
NP	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	4.4	
E	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	
SE	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	
S	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	
SW	0.0	0.0	0.0	0.0	3.6	2.2	1.7	0.0	0.0	10.8	
W	0.0	0.0	0.0	1.7	3.4	3.0	3.0	0.0	0.0	20.7	
NW	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	6.5	
VAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CALN	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	1.7	
TOT OBS	0	0	1	4	8	6	1	0	2	31	99
TOT PCT	0.0	0.0	1.7	6.9	13.8	10.3	6.9	1.7	0.0	53.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	>10	>5	>2	VSBY (NM)	>1	>1/2	>1/4	>50YD	>0
>OR	>OR	>OR	>OR	>OR	>OR	>OR	>OR	>OR	>OR
>OR >4900	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>OR >4000	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>OR >3500	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
>OR >3000	20.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
>OR >2000	30.3	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
>OR >1000	39.0	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
>OR >600	39.0	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
>OR >300	39.0	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
>OR >150	39.0	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
>OR >0	39.0	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
TOTAL	21	26	26	26	26	26	26	26	26

TOTAL NUMBER OF OBS: 99

PCT FREQ NM <5/8: 52.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL
									OBS
29.4	11.9	11.9	3.4	0.0	8.5	10.2	7.5	20.3	99

PERIOD: (PRIMARY) 1932-1972
(OVER-ALL) 1922-1972

OCTOBER

AREA 0016 MAGELLAN STRAIT EAST
51.45 66.4W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<3	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	3.9	.2	.0	.9	.0	2.3	20.8	8.4	.0	.0	37.2	
	TOT S	3.9	.2	.0	.9	.0	2.3	20.8	8.4	.0	.0	37.2	
10+	PCP	2.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	2.7	
	NO PCP	11.1	1.3	.9	1.3	2.0	14.8	18.6	7.5	.0	2.7	62.8	
	TOT S	13.1	1.8	.9	1.3	2.0	14.8	18.6	7.7	.0	2.7	62.8	
TOT OBS													113
TOT PCT		16.4	2.0	.9	2.2	2.0	18.4	39.4	16.2	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<3	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.9	.0	.0	.0	.0	.4	1.2	.9	.0	.0	3.5	
	11-21	1.8	.0	.0	.0	.0	2.2	14.2	4.0	.0	.0	22.1	
	22+	.7	.2	.0	.9	.0	.9	3.3	3.3	.0	.0	11.5	
	TOT S	3.3	.2	.0	.9	.0	3.3	20.8	8.4	.0	.0	37.2	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	2.7	
	4-10	3.8	.9	.9	.0	.9	4.4	2.7	.4	.0	.0	13.9	
	11-21	3.8	.7	.0	1.3	.4	7.7	10.6	4.4	.0	.0	31.0	
	22+	1.3	.2	.0	.0	.7	2.7	3.3	2.9	.0	.0	13.3	
	TOT S	13.1	1.8	.9	1.3	2.0	14.8	18.6	7.7	.0	2.7	62.8	
TOT OBS													113
TOT PCT		16.4	2.0	.9	2.2	2.0	18.4	39.4	16.2	.0	2.7	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1972
(OVER-ALL) 1922-1972AREA 0016 MAGELLAN STRAIT EAST
51.4S 66.4W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	399	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	15.4	20.8	15.4	7.7	.0	.0	.0	69.2	30.8	13
06009	.0	.0	.0	5.6	11.1	16.7	5.6	.0	.0	5.6	44.4	55.6	18
12015	.0	.0	5.6	5.6	11.1	5.6	16.7	5.6	.0	.0	50.0	50.0	18
18021	.0	.0	.0	.0	10.0	.0	.0	.0	.0	10.0	20.0	80.0	10
TOT	0	0	1	4	9	6	3	1	0	2	28	31	59
PCT	.0	.0	1.7	6.8	15.3	10.2	8.3	1.7	.0	3.4	47.5	52.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL
(GMT)							OBS
00003	.0	.0	.0	.0	45.2	54.8	31
06009	.0	.0	.0	.0	27.6	72.4	29
12015	.0	.0	.0	.0	41.9	58.1	31
18021	.0	.0	.0	.0	37.3	62.7	24
TOT	0	0	0	0	44	71	115
PCT	.0	.0	.0	.0	38.3	61.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HR	<150	<600	<1000	1000+	NM <5/8 AND 5+	TOTAL
(GMT)	<50 FT	<1	<5	AND 5+		OBS
00003	.0	.0	15.4	53.8	30.8	13
06009	.0	.0	5.6	38.9	55.6	18
12015	.0	5.6	11.1	38.9	50.0	18
18021	.0	.0	.0	20.0	80.0	10
TOT	0	1	3	23	31	59
PCT	.0	1.7	8.3	39.0	52.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
59/39	.0	1.0	.0	.0	.0	.0	.0	.0	1	1.0
50/34	.0	.0	.0	.0	1.0	2.9	.0	.0	4	3.8
49/49	.0	.0	.0	3.9	11.4	16.2	15.3	3.8	31	48.6
40/44	.0	.0	.0	1.0	9.7	11.4	19.2	10.3	46	43.8
39/39	.0	.0	.0	.0	1.0	1.0	.0	1.0	3	2.9
TOTAL	0	1	0	9	20	33	30	16	105	100.0
PCT	.0	1.0	.0	4.8	19.0	31.4	28.6	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
59/39	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50/34	.0	.0	.0	1.0	.0	1.2	.7	1.0	.0	.0
49/49	10.7	1.4	1.0	1.0	.7	9.3	19.0	7.4	.0	1.9
40/44	2.1	.7	.0	.3	.3	10.2	26.0	2.9	.0	1.4
39/39	.0	.0	.0	.0	.0	1.0	1.9	.0	.0	.0
TOTAL	13.8	2.1	1.0	2.4	1.2	21.9	43.6	11.2	.0	2.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	50	49	49	44	39	38	39	43.9	36
06009	51	50	50	44	39	38	39	43.9	30
12015	50	49	48	44	39	35	45	43.9	35
18021	58	57	51	46	43	42	42	46.7	28
TOT	58	58	50	44	39	38	35	44.5	129

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	3.8	19.2	24.9	38.3	11.3	77	26		26
06009	.0	3.8	11.3	28.9	42.3	13.4	80	26		26
12015	.0	3.3	23.3	23.3	26.7	23.3	79	30		30
18021	.0	12.5	20.8	50.0	4.2	12.5	71	24		24
TOT	0	6	20	33	30	17	77	106		

OCTOBER

PERIOD: (PRIMARY) 1937-1972
(OVER-ALL) 1922-1972

TABLE 17

AREA 0016, MAGELLAN STRAIT EAST
51.4S 66.4WPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT FOG	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.9	1	.0	.9
9/10	.0	.0	.0	.0	.0	.9	.0	1	.0	.9
7/8	.0	.0	.0	.9	3.6	.0	.0	5	.0	4.5
6	.0	.0	.0	2.7	.9	.0	.0	4	.0	3.6
5	.0	.0	.0	5.4	2.7	.0	.0	9	.0	8.1
4	.0	.0	.9	3.6	.0	.0	.0	5	.9	3.6
3	.0	.0	1.8	13.5	.0	.0	.0	17	2.7	12.6
2	.0	.0	5.4	4.5	.9	.0	.0	12	1.8	9.0
1	.0	.0	3.4	2.7	.0	.0	.0	9	.0	8.1
0	.0	.0	10.8	4.5	.0	.0	.0	17	3.6	11.7
-1	.0	3.6	10.8	.0	.0	.0	.0	18	.0	14.4
-2	.0	.0	3.6	.9	.0	.0	.0	5	1.8	2.7
-3	.0	.9	.9	.0	.0	.0	.0	2	.0	1.8
-4	.0	.9	1.8	.0	.0	.0	.0	3	.0	2.7
-5	.0	.9	1.8	.0	.0	.0	.0	3	.0	2.7
-7/-8	.9	.9	.0	.0	.0	.0	.0	2	.0	1.8
TOTAL	1	8	48	43	9	1	1	111	12	99
PCT	.9	7.2	43.2	38.7	8.1	.9	.9	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
1-2	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	7.1	6.3	.0	.0	.0	13.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	.9	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.9	6.3	2.7	.0	.0	26.8	.0	.0	.0	.9	.0	.0	.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	3.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	3.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.6	.0	.0	7.1

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0016 MAGELLAN STRAIT EAST
51.45 66.4W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	3.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.1	.0	.0	.0	10.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	4.5	
7	.0	.0	.0	.0	2.7	.0	2.7	.0	.0	.0	.0	.9	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	2.7	.0	2.7	.0	3.6	13.2	.0	.9	.0	19.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.6	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.6	4.8	.0	.0	.0	13.4	.0	.0	.9	.0	.0	.0	.9	
3-4	.0	.0	3.6	.0	.0	.0	3.6	.0	.0	.9	.0	.0	.0	.9	
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	2.7	.0	6.3	.0	8.9	.0	.0	.9	.0	.9	.0	1.8	
8-9	.0	.0	.0	.0	3.6	.0	3.6	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	7.1	18.8	.0	9.8	.0	35.7	.0	.0	2.7	.0	.9	.0	3.6	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.6	7.1	3.6	.0	.0	.0	14.3	
1-2	.0	10.7	14.3	.0	.0	.0	25.0	
3-4	.0	10.7	17.9	.0	.0	.0	28.6	
5-6	.0	.0	7.1	3.6	.0	.0	10.7	
7	.0	.0	3.6	.0	10.7	.0	14.3	
8-9	.0	.0	.0	3.6	3.6	.0	7.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.6	28.6	48.4	7.1	14.3	.0	100.0	28

PERIOD: (OVER-ALL) 1961-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	9.6	15.4	3.8	3.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	4
6-7	.0	.0	3.8	21.2	9.6	3.8	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	6
8-9	.0	.0	.0	1.9	.0	3.8	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
10-11	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
12-13	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
>13	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDPT	3.8	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	2	9	11	15	8	7	3	0	1	0	0	0	0	0	0	0	0	0	0	92	5
PCT	3.8	9.6	21.2	28.8	15.4	13.5	5.8	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

NOVEMBER

AREA 0016 MAGELLAN STRAIT EAST
51.35 65.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	RAZL	PR25 PCPN	SNOW	OTHER PR25 PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FG NO PCPN	FG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST BLNG SNOW	NO SIG WEA
N	.0	3.2	3.2	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	93.3
NE	.0	.0	5.3	.0	.0	.0	.0	5.3	10.5	.0	.0	.0	.0	.0	84.2
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.2	.0	.0	.0	.0	2.3	1.2	.0	.0	.0	.0	.0	96.3
TOT OBS:	86														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PR25 PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FG NO PCPN	FG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
0600	.0	4.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	96.0
1200	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	96.3
1800	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	96.7
TOT PCT TOT OBS:	.0	1.1	1.1	.0	.0	.0	.0	2.2	1.1	.0	.0	.0	.0	.0	96.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.3	3.8	11.4	.0	.0	.0		17.7	12.9	30.4	.0	12.3	5.6	21.9	10.0	19.4	20.0
NE	2.0	3.8	9.8	.0	.0	.0		9.6	10.7	3.6	25.0	3.0	11.1	9.4	10.0	12.3	20.0
E	.0	2.0	1.0	.0	.0	.0		3.0	9.3	7.1	.0	3.0	.0	.0	20.0	.0	.0
SE	.0	1.3	.0	.0	.0	.0		1.3	7.6	.0	.0	3.0	.0	2.1	.0	.0	.0
S	.0	2.3	.5	.0	.0	.0		2.8	8.0	.0	.0	.0	8.3	4.2	.0	9.6	.0
SW	1.0	4.8	7.5	3.8	.3	.0		17.2	14.4	23.2	.0	28.8	2.8	21.9	.0	12.3	3.3
W	.0	10.1	10.1	3.3	2.8	.0		26.3	16.6	17.9	30.0	21.3	19.4	30.2	10.0	44.4	35.0
NW	1.5	9.1	7.3	1.0	1.0	.0		19.9	12.9	17.9	25.0	22.3	32.8	10.4	30.0	3.6	20.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	39	41	10	4	0	99		13.6	14	4	20	9	24	3	18	3
TOT PCT	5.1	39.4	41.4	10.1	4.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	U-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00					06	12	18	
										00	06	12	18
										03	09	15	21
N	2.0	10.6	5.1	.0	.0		17.7	12.9	23.6	10.3	19.8	19.6	
NE	2.0	5.1	2.3	.0	.0		9.6	10.7	8.3	6.9	9.3	14.1	
E	1.0	2.0	.0	.0	.0		3.0	9.3	7.6	3.4	3.4	.0	
SE	.0	1.3	.0	.0	.0		1.3	7.4	.0	3.4	1.7	.0	
S	1.8	.3	.3	.0	.0		2.8	8.0	.0	2.6	3.4	4.3	
SW	4.3	3.6	6.8	.3	.0		17.2	14.4	19.1	20.7	13.1	10.9	
W	4.3	10.6	9.8	3.3	.0		26.3	16.6	25.0	20.7	26.7	42.4	
NW	3.8	10.6	4.5	1.0	.0		19.9	12.9	19.4	31.9	17.2	8.7	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
TOT OBS	19	16	29	3	0	99		13.6	18	29	29	23	
TOT PCT	19.2	46.5	29.3	3.1	.0		100.0		100.0	100.0	100.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1949-1973
(OVER-ALL) 1922-1973

AREA 0016 MAGELLAN STRAIT EAST
91.95 69.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000Z	.0	.0	22.2	61.1	11.1	5.6	.0	14.9	100.0	18
0600Z	.0	10.3	44.8	31.7	10.3	3.4	.0	12.4	100.0	29
1200Z	.0	3.4	41.4	37.9	13.8	3.4	.0	14.3	100.0	29
1800Z	.0	4.2	43.5	47.5	4.3	4.3	.0	13.4	100.0	23
TOT	0	5	39	41	10	4	0	13.8		99
PCT	.0	5.1	39.4	41.4	10.1	4.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS CO	TOTAL OBS	MEAN CLOUD COVER
N	1.6	5.7	9.0	1.6		9.1
NE	.0	.4	5.3	.0		6.4
E	.0	1.6	.0	.0		3.0
SE	.0	.0	.8	1.6		7.6
S	.8	.0	2.9	.0		5.0
SW	7.0	7.0	8.6	.0		3.6
W	6.1	5.7	8.6	2.6		4.9
NW	1.6	5.7	6.1	4.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	11	16	23	9	61	4.8
TOT PCT	18.0	26.2	47.0	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <4/8 BY WIND DIRECTION

	000 149	100 299	300 999	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	4.3	.0	3.3	.0	.0	.0	10.2	
NE	.0	.0	.0	.0	.4	1.6	.0	.0	.0	.0	3.7	
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	
SW	.0	.0	.0	.0	2.0	.0	.4	1.6	.0	.0	19.3	
W	.0	.0	1.6	.0	2.9	1.6	1.2	.0	.0	1.2	18.4	
NW	.0	.0	.0	.0	4.9	1.6	.0	.0	1.6	.4	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	1	0	9	3	3	1	1	1	42	61
TOT PCT	.0	.0	1.6	.0	14.8	4.9	4.9	1.6	1.6	1.6	68.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8; AND VSBY (NM)

	CEILING (FEET)	VSBY (NM)							
		>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>R >6500	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>R >5000	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
>R >3500	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
>R >2000	11.3	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>R >1000	23.8	30.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
>R >600	28.8	30.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
>R >400	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9	33.9
>R >150	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9	33.9
>R >0	27.4	32.3	33.9	33.9	33.9	33.9	33.9	33.9	33.9
TOTAL		17	20	21	21	21	21	21	21

TOTAL NUMBER OF OBS: 62

PCT FREQ NM <5/8: 66.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS CO	TOTAL OBS
	17.9	9.0	13.4	14.9	10.4	9.0	7.5	10.4	7.5	.0	67

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

NOVEMBER

AREA 0016 MADAGASCAR STRAIT EAST
51.95 65.8W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	3.5	7.6	2.3	.0	.0	.0	7.6	5.8	.0	.0	26.7	
	TOT %	3.5	7.6	2.3	.0	.0	.0	7.6	5.8	.0	.0	26.7	
10+	PCP	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	1.2	
	NO PCP	13.4	2.9	1.2	1.7	2.3	17.7	16.3	13.4	.0	.0	70.9	
	TOT %	14.0	2.9	1.2	1.7	2.3	17.7	16.3	14.0	.0	.0	72.1	
TOT OBS													
TOT PCT													
		18.0	11.0	3.5	1.7	2.3	17.7	23.8	21.8	.0	.0	100.0	86

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	2.3	3.4	1.1	.0	.0	.0	4.0	4.0	.0	.0	14.9	
	11-21	1.1	4.0	1.1	.0	.0	.0	1.1	1.7	.0	.0	9.2	
	22+	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	2.3	
	TOT %	3.4	7.5	2.3	.0	.0	.0	7.5	5.7	.0	.0	26.4	
10+	0-3	.6	2.3	.0	.0	.0	1.1	.0	1.7	.0	.0	5.7	
	4-10	3.7	.3	1.1	1.7	1.7	3.7	4.9	3.7	.0	.0	23.0	
	11-21	9.5	.3	.0	.0	.6	8.0	4.9	6.6	.0	.0	29.9	
	22+	.0	.0	.0	.0	.0	4.6	6.3	1.7	.0	.0	12.6	
	TOT %	13.8	2.9	1.1	1.7	2.3	17.5	16.1	13.8	.0	.0	71.3	
TOT OBS													
TOT PCT													
		17.8	10.9	3.4	1.7	2.3	17.5	24.1	22.1	.0	.0	100.0	87

NOVEMBER

PERIOD: (PRIMARY) 1948-1973
(OVER-ALL) 1922-1973

TABLE 10

AREA 0016 MAGELLAN STRAIT EAST
51.55 65.8W

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 899	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	.0	21.4	.0	14.3	.0	.0	.0	35.7	64.3	14
0600Z	.0	.0	.0	.0	6.7	.0	.0	.0	6.7	6.7	20.0	80.0	15
1201Z	.0	.0	5.3	.0	21.1	5.3	5.3	5.3	.0	.0	42.1	57.9	19
1802Z	.0	.0	.0	.0	17.6	11.8	.0	.0	.0	.0	29.4	70.6	17
TOT	0	0	1	0	11	3	3	1	1	1	21	44	65
PCT	.0	.0	1.5	.0	16.9	4.6	4.6	1.5	1.5	1.5	32.3	67.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
0000Z	.0	.0	.0	5.6	33.3	61.1	18
0600Z	.0	.0	.0	.0	24.0	76.0	25
1201Z	.0	3.7	.0	.0	27.2	74.1	27
1802Z	.0	.0	.0	5.0	25.0	70.0	20
TOT	0	1	0	2	23	64	90
PCT	.0	1.1	.0	2.2	25.6	71.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	7.1	28.6	64.3	14
0600Z	.0	.0	.0	21.4	78.6	14
1201Z	.0	5.6	5.6	38.9	55.6	19
1802Z	.0	.0	.0	31.3	68.8	16
TOT	0	1	2	19	41	62
PCT	.0	1.6	3.2	30.6	66.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	1.3	.0	1.3	.0	2	2.5
50/54	.0	.0	1.3	1.3	6.8	4.3	10.0	1.3	21	26.3
45/49	.0	.0	.0	2.5	5.0	12.5	22.5	8.8	41	51.3
40/44	.0	.0	.0	.0	1.3	5.0	6.3	5.0	14	17.5
35/39	.0	.0	.0	.0	.0	1.3	1.3	.0	2	2.5
TOTAL	0	0	1	4	11	20	33	12	80	100.0
PCT	.0	.0	1.3	5.0	13.8	25.0	41.3	15.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.0	.0	1.3	.0	1.3	.0	.0
50/54	10.0	1.3	.0	1.3	.0	2.5	7.2	3.4	.0	.0
45/49	7.5	1.1	1.3	.0	1.9	6.7	19.1	13.8	.0	.0
40/44	1.3	.0	.0	.0	1.6	3.9	5.6	2.5	.0	.0
35/39	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0
TOTAL	18.8	5.0	1.3	1.9	3.4	14.4	33.1	22.2	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	55	54	54	47	42	42	42	47.7	19
0600Z	54	53	53	46	40	39	39	45.6	30
1201Z	57	56	55	47	43	42	42	47.2	31
1802Z	54	53	53	50	43	37	37	49.3	24
TOT	57	55	54	47	42	37	37	47.4	104

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	13.3	20.0	6.7	46.7	13.3	78	15		
0600Z	.0	.0	12.5	20.8	41.7	25.0	81	24		
1201Z	.0	4.2	17.5	33.3	17.5	12.5	79	24		
1802Z	.0	5.0	10.0	40.0	35.0	10.0	79	20		
TOT	0	4	11	22	33	13	79	83		

PERIOD: (PRIMARY) 1940-1973
(OVER-ALL) 1922-1973

NOVEMBER

AREA 0010 MAGELLAN STRAIT EAST
31.88 69.24

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF PG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	43 46	44 52	53 56	57 60	TOT	h PG	NO PG
9/10	.0	.0	.0	.0	2.3	1.2	3	.0	3.5
7/8	.0	.0	.0	.0	2.3	.0	2	.0	2.9
6	.0	.0	1.2	2.3	4.7	.0	7	.0	9.1
5	.0	.0	1.2	2.3	.0	.0	3	.0	3.9
4	.0	.0	1.2	5.8	.0	.0	6	.0	7.0
3	.0	.0	12.8	5.8	2.3	.0	18	.0	20.9
2	.0	1.2	3.9	.0	.0	.0	4	.0	4.7
1	.0	2.3	7.0	1.2	.0	.0	9	.0	10.5
0	.0	3.9	4.7	2.3	2.3	.0	11	.0	12.3
-1	.0	7.0	7.0	1.2	.0	.0	13	.0	19.1
-2	.0	2.3	1.2	.0	.0	.0	3	.0	3.9
-3	.0	2.3	1.2	1.2	.0	.0	4	.0	4.7
-4	.0	1.2	.0	.0	.0	.0	1	.0	1.2
-5	.0	.0	1.2	.0	.0	.0	1	.0	1.2
-6	1.2	.0	.0	.0	.0	.0	1	.0	1.2
TOTAL	1	17	36	19	12	1	86	0	86
PCT	1.2	19.8	41.9	22.1	14.0	1.2	100.0		100.0

PERIOD: (OVER-ALL) 1940-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.3	.0	.0	.0	2.3	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	8.8	.0	.0	.0	8.8	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	2.3	2.3	.0	.0	.0	3.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	2.3	.0	.0	.0	2.3	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	10.3	.0	.0	.0	10.3	TOT PCT	.0	.0	.0	.0	.0	.0	.0

MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	.0	.0	.0	.0	.0	.0	41	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	2.3	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	TOT PCT	.0	2.3	.0	.0	.0	.0	2.3

PERIOD: (OVER-ALL) 1963-1973

NOVEMBER

AREA 0016 MAGELLAN STRAIT EAST
51.33 63.8W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0	.0	.0	.0	5.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	3.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	.0	5.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.0	9.4	.6	.0	18.1	

N								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	3.1	.0	.0	.0	.0	3.1	.0	
3-4	.0	4.4	6.9	3.0	.0	.0	16.3	.0	3.6	6.3	.0	.0	.0	11.9	.0	
5-6	.0	1.9	2.0	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	2.5	.0	2.5	.0	.0	5.0	.0	.0	.0	5.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	2.5	.0	
12	.0	.0	.0	1.9	2.5	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.1	11.9	10.6	6.9	.0	37.5	.0	8.8	11.3	.0	2.5	.0	22.5	100.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	10.0	2.5	.0	.0	.0	12.5	.0
3-4	.0	10.0	22.5	9.0	.0	.0	37.5	.0
5-6	.0	9.0	12.5	.0	.0	.0	17.5	.0
7	.0	.0	.0	9.0	.0	.0	9.0	.0
8-9	.0	.0	7.5	9.0	2.5	.0	13.0	.0
10-11	.0	.0	.0	.0	2.5	.0	2.5	.0
12	.0	.0	.0	2.5	2.5	.0	5.0	.0
13-16	.0	.0	.0	2.5	.0	.0	2.5	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	2.5	.0	2.5	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	25.0	45.0	20.0	10.0	.0	100.0	40

PERIOD: (OVER-ALL) 1951-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
46	.0	10.2	20.4	8.2	.0	12.2	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	5
8-9	.0	.0	8.1	2.0	6.1	.0	12.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
8-9	.0	.0	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12-13	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	2	14
913	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
INDBT	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
TOTAL	.0	9	14	8	5	7	6	2	1	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	49	6
PCT	.0	10.2	28.6	16.3	10.2	14.3	12.2	4.1	2.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1954-1973
(OVER-ALL) 1937-1973

AREA 0016 MAGELLAN STRAIT EAST
51.85 66.54

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG NEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	6.0	6.0	.0	.0	.0	.0	11.9	.0	.0	14.9	.0	.0	.0	73.1
NE	.0	21.8	.0	.0	.0	.0	.0	21.8	7.3	.0	3.6	.0	.0	.0	67.3
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	3.8	3.8	.0	.0	.0	.0	.0	9.6	.0	1.9	1.9	.0	.0	.0	88.5
NW	29.4	.0	.0	.0	.0	.0	.0	29.4	.0	17.6	5.9	.0	.0	.0	64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.8	6.0	1.2	.0	.0	.0	.0	11.9	1.2	2.4	4.8	.0	.0	.0	82.1
TOT OBS	84														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG NEA
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	9.4	9.4	.0	.0	.0	.0	.0	18.8	3.1	0.3	3.1	.0	.0	.0	73.0
0600	3.3	.0	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	94.7
1200	.0	0.3	0.3	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	.0	.0	75.0
1800	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	.0	88.9
TOT PCT	4.7	3.9	1.2	.0	.0	.0	.0	11.8	1.2	2.4	4.7	.0	.0	.0	82.4
TOT OBS	85														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.0	4.3	14.3	1.9	.0	.0		20.7	14.0		5.2	.0	23.6	33.3	33.3	50.0	16.7	50.0
NE	1.1	1.1	11.6	2.2	.0	.0		15.9	16.7		19.0	75.0	6.9	.0	.0	.0	20.0	33.3
E	.0	.0	3.2	2.2	.0	.0		5.4	10.8		3.4	.0	11.1	.0	.0	.0	6.7	16.7
SE	.0	2.2	.0	.0	.0	.0		2.2	10.0		3.4	.0	.0	.0	8.3	.0	.0	.0
S	.0	1.1	4.3	.0	.8	.0		6.2	17.1		6.0	.0	8.3	25.0	.0	.0	11.7	.0
SW	.0	2.2	7.0	.3	1.6	.0		11.0	18.3		12.9	.0	8.3	8.3	8.3	16.7	13.3	.0
W	2.2	4.0	12.6	8.3	1.9	.0		29.0	19.2		36.2	.0	38.9	33.3	37.5	25.0	16.7	.0
NW	.0	1.3	7.0	1.3	.0	.0		9.7	16.3		13.8	25.0	2.8	.0	12.5	8.3	10.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	3	18	33	13	4	0		93	16.6		29	4	18	3	12	6	13	6
TOT PCT	3.2	19.4	39.1	14.0	4.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00 03					06 09	12 15	18 21		
N	2.2	12.6	3.9	.0	.0			20.7	14.0	4.5	23.0	38.9	26.2	
NE	1.1	6.3	7.3	1.1	.0			15.9	16.7	25.8	4.0	.0	23.8	
E	.0	3.4	.0	.0	.0			3.4	10.8	3.0	9.5	.0	9.5	
SE	.0	2.2	.0	.0	.0			2.2	10.0	3.0	.0	5.6	.0	
S	1.1	2.7	1.6	.8	.0			6.2	17.1	5.2	10.7	.0	8.3	
SW	2.2	4.3	2.7	.8	1.1			11.0	18.3	11.4	8.3	11.1	13.1	
W	3.0	8.9	10.8	6.3	.0			29.0	19.2	31.8	38.1	33.3	11.9	
NW	.3	4.8	4.0	.3	.0			9.7	16.3	13.2	2.4	11.1	7.1	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
TOT OBS	9	44	30	9	1	93			16.6	33	21	18	21	
TOT PCT	9.7	47.3	32.3	9.7	1.1	100.0				100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1956-1973
(OVER-ALL) 1932-1973

AREA 0016 MAGELLAN STRAIT EAST
51.05 66.54

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GPT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+				
0000Z	.0	9.1	15.2	63.6	9.1	3.0	.0	15.7	100.0	33	
0600Z	.0	.0	14.3	66.7	14.3	4.8	.0	17.7	100.0	21	
1200Z	.0	.0	27.8	50.0	16.7	5.6	.0	17.0	100.0	18	
1800Z	.0	.0	23.8	52.4	19.0	4.8	.0	16.6	100.0	21	
TOT	0	3	18	53	13	4	0	1.6		93	
PCT	.0	3.2	19.4	59.1	14.0	4.3	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	1.6	7.0	4.8		4.7
NE	.0	.0	9.4	6.6		6.9
E	.0	.0	4.7	.0		3.6
SE	.0	.0	1.6	1.6		4.5
S	.0	9.9	1.2	1.2		3.0
SW	6.3	3.1	2.3	.3		3.2
W	9.8	8.6	12.1	3.3		4.2
NW	1.2	.0	3.9	2.0		3.9
VAR	.0	.0	.0	.0		.7
CALM	.0	.0	.0	.0		.0
TOT OBS	12	11	27	14	64	5.0
TOT PCT	18.8	17.2	42.2	21.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT./NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
1.4	.0	.0	1.6	2.3	2.7	.0	.0	.0	.0	4.3		
1.6	.0	1.6	.0	2.0	3.1	1.6	.0	.0	.0	3.1		
.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6		
.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	3.9	4.7	.0	.0	.0	.0	.0		
.0	.0	.0	.0	2.0	.4	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0									

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM) >4/8 AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>8	>6	>4	>1/2	>1/4	>50YD	>0
> OR >4500	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
> OR >4000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
> OR >3500	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
> OR >3000	12.2	16.9	16.9	16.9	16.9	16.9	16.9	16.9
> OR >2000	24.6	33.8	35.4	35.4	35.4	35.4	35.4	35.4
> OR >1000	26.2	35.4	36.9	36.9	36.9	36.9	36.9	36.9
> OR >500	27.7	36.9	38.5	38.5	38.5	38.5	38.5	38.5
> OR >150	27.7	36.9	38.5	38.5	38.5	38.5	38.5	38.5
> OR >0	27.7	36.9	40.0	40.0	40.0	41.5	41.5	41.5
TOTAL	18	24	26	26	26	27	27	27

TOTAL NUMBER OF OBS: 65

PCT FREQ NM <5/8: 38.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.1	10.6	16.7	13.6	12.1	9.1	9.1	10.6	10.6	1.5	66

DECEMBER

PERIOD: (PRIMARY) 1956-1973
(OVER-ALL) 1937-1973

AREA 0016 MAGELLAN STRAIT EAST
51.0S 66.5W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	1.2	.0	.0	.0	.0	.0	1.2	.0	.0	.0	2.4	
	NO PCP	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	3.6	
5<10	PCP	1.2	2.4	.0	.0	.0	.0	1.8	3.0	.0	.0	8.4	
	NO PCP	8.4	3.0	2.4	.0	.0	.0	3.0	1.2	.0	.0	17.9	
	TOT %	9.6	5.4	2.4	.0	.0	.0	4.8	4.2	.0	.0	26.3	
10+	PCP	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	8.0	8.4	3.6	2.4	4.8	9.6	25.0	6.0	.0	.0	67.9	
	TOT %	8.0	9.6	3.6	2.4	4.8	9.6	25.0	6.0	.0	.0	69.0	
TOT OBS													
TOT PCT													
		19.9	16.4	6.0	2.4	4.8	9.6	31.0	10.1	.0	.0	100.0	94

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
1/2<1	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	6-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
	6-10	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
	11-21	8.4	3.0	1.2	.0	.0	.0	2.4	3.0	.0	.0	17.9	
	22+	.0	.0	.0	.0	.0	.0	2.4	1.2	.0	.0	3.6	
	TOT %	9.6	5.4	2.4	.0	.0	.0	4.8	4.2	.0	.0	26.2	
10+	0-5	.0	.0	.0	.0	.0	.0	2.4	.0	.0	.0	2.4	
	6-10	3.6	.0	2.4	2.4	.0	2.4	4.8	1.2	.0	.0	16.7	
	11-21	4.8	7.4	1.2	.0	3.6	6.3	10.4	4.8	.0	.0	38.1	
	22+	.0	2.4	.0	.0	.0	.0	7.7	.0	.0	.0	11.9	
	TOT %	8.0	9.8	3.6	2.4	4.8	9.6	25.0	6.0	.0	.0	69.0	
TOT OBS													
TOT PCT													
		19.9	16.4	6.0	2.4	4.8	9.6	31.0	10.1	.0	.0	100.0	94

DECEMBER

PERIOD: (PRIMARY) 1954-1973
(OVER-ALL) 1932-1973

AREA 0016 MAGELLAN STRAIT EAST
51.6S 66.3W

TABLE 10

PERCENT FREQUENCY OF CILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 399	400 499	1000 1999	2000 2499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	3.6	.0	3.6	.0	11.3	3.6	.0	.0	.0	3.6	26.9	73.1	26
0600Z	.0	.0	.0	.0	37.3	18.8	.0	.0	.0	.0	56.2	43.8	16
1201Z	11.1	.0	.0	11.1	.0	11.1	.0	.0	.0	11.1	44.4	55.6	9
1802Z	.0	.0	.0	.0	20.0	13.3	6.7	.0	.0	6.7	46.7	53.3	13
TOT	2	0	1	1	12	7	1	0	0	3	27	29	66
PCT	3.0	.0	1.5	1.5	18.2	10.6	1.5	.0	.0	4.5	40.2	59.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	.0	.0	.0	3.1	28.1	67.8	32
0600Z	.0	.0	.0	5.3	26.3	68.4	19
1201Z	6.3	.0	.0	6.3	18.8	68.8	16
1802Z	.0	.0	.0	.0	33.3	66.7	18
TOT	1	0	0	3	23	98	89
PCT	1.2	.0	.0	3.3	27.1	68.2	100.0

TABLE 12

CUMULATIVE PCT PRES OR RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
0000Z	4.0	8.0	8.0	20.0	72.0	25
0600Z	.0	.0	6.3	30.0	43.8	16
1201Z	11.1	11.1	22.2	22.2	55.6	9
1802Z	.0	.0	.0	44.7	53.3	13
TOT	2	3	3	22	58	65
PCT	3.1	4.6	7.7	33.8	59.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT PRES
59/59	.0	.0	1.3	.0	2.7	.0	6.7	1.3	9	12.0
59/54	.0	.0	.0	.0	6.0	13.3	13.3	10.7	36	49.3
49/49	.0	.0	.0	1.3	2.7	8.0	18.0	13.3	31	41.1
39/44	.0	.0	.0	.0	.0	1.3	.0	.0	1	1.3
TOTAL	0	0	1	1	10	27	27	19	79	100.0
PCT	.0	.0	1.3	1.3	12.7	22.7	34.0	23.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
59/59	2.3	2.7	.0	.0	1.3	1.3	2.0	2.3	.0	.0
59/54	9.7	9.7	2.7	2.7	2.3	3.0	11.0	6.3	.0	.0
49/49	9.7	4.7	2.7	.0	4.0	4.3	16.3	3.7	.0	.0
39/44	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0
TOTAL	17.7	17.0	3.3	2.7	7.7	10.0	29.3	10.3	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	59	58	56	50	46	43	43	50.6	34
0600Z	57	56	53	48	43	44	44	48.7	21
1201Z	57	56	54	50	46	46	46	50.3	18
1802Z	56	55	53	52	46	46	46	52.0	21
TOT	59	57	56	51	49	44	44	50.3	94

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	6.9	13.8	27.6	31.0	20.7	79		29	
0600Z	.0	.0	10.5	10.5	47.4	31.6	85		19	
1201Z	.0	.0	9.1	27.3	18.2	43.5	84		11	
1802Z	.0	.0	17.6	23.3	47.1	11.8	79		17	
TOT	0	2	10	17	28	19	81		76	

DECEMBER

PERIOD: (PRIMARY) 1 56-1973
(OVER-ALL) 1937-1973

TABLE 17

AREA 0016 MAGELLAN STRAIT EAST
51.05 66.3W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THP OCCURRENCE OF FOG (WITH/OUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA THP DIF	41 44	45 48	49 52	53 56	57 60	TOT	W FGG	WO FGG
11/13	.0	.0	.0	2.4	.0	2	.0	2.4
9/10	.0	.0	.0	1.7	.0	1	.0	1.2
7/8	.0	.0	1.2	6.1	2.4	8	.0	9.8
6	.0	.0	1.2	.0	.0	1	.0	1.2
5	.0	.0	2.4	9.7	.0	3	.0	6.1
4	.0	1.7	7.3	1.7	.0	8	.0	9.8
3	.0	.0	7.3	6.1	.0	11	.0	13.4
2	.0	2.4	4.9	4.9	.0	10	.0	12.2
1	.0	8.5	2.4	.0	.0	9	1.2	9.8
0	.0	7.3	9.7	2.4	.0	11	1.2	12.2
-1	1.2	4.9	1.2	.0	.0	6	1.2	6.1
-2	.0	8.5	.0	.0	.0	7	.0	8.5
-3	.0	1.2	.0	.0	.0	1	.0	1.2
-4	.0	.0	1.2	.0	.0	1	.0	1.2
-5	.0	1.2	.0	.0	.0	1	.0	1.2
TOTAL	1	20	23	2	82	100.0	3.7	96.3
PCT	1.2	35.4	32.9	20.0	2.4	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	11.4	.0	.0	.0	14.4	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	6.1	.0	.0	.0	.0
5-6	.0	.0	.0	3.0	.0	.0	3.0	.0	.0	3.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.1	13.6	3.0	.0	.0	22.7	.0	.0	9.1	.0	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
41	.0	3.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	6.1	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	.0

AREA 0016 MAGELLAN STRAIT E+ST
51.65 66.5W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

[illegible]

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	6.1	3.0	.0	.0	.0	9.1	
1-2	.0	6.1	27.3	.0	.0	.0	33.3	
3-4	3.0	.0	12.1	.0	.0	.0	15.2	
5-6	.0	.0	21.2	3.0	.0	.0	24.2	
7	.0	.0	9.1	3.0	.0	.0	12.1	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	3.0	.0	.0	3.0	
12	.0	.0	.0	3.0	.0	.0	3.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.0	12.1	72.7	12.1	.0	.0	100.0	33

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

ANNUAL

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973AREA 0016 MADAGASCAR STRAIT EAST
51.35 66.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	CRZL	PRZG PCPN	SNOW	OTHER PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SMOG	NO SIG WEA
N	2.4	1.1	3.2	.0	.0	.0	.0	7.8	.3	.0	9.8	.0	.2	.0	81.8
NE	7.1	1.8	4.3	.0	.0	.0	.0	13.4	3.0	.0	6.7	.0	.0	.0	76.9
E	9.7	1.9	7.5	.0	.0	.0	.0	15.1	.0	.0	11.9	.0	.0	.0	64.7
SE	8.3	.0	4.1	.0	.0	.0	.0	12.3	.3	.0	5.1	.0	.0	1.3	81.0
S	4.1	1.3	.7	.0	.4	.0	.0	6.0	3.1	.0	2.0	.0	.0	.0	88.8
SW	2.2	1.6	.3	.0	1.0	.0	.0	5.0	.8	.0	4.7	.0	.0	.0	86.3
W	1.7	1.1	1.0	.0	.0	.0	.0	3.8	.7	.3	6.1	.1	.1	.0	89.3
NW	4.8	1.3	1.2	.0	.0	.0	.0	7.4	.1	1.3	8.2	.1	.4	.0	83.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	3.7	7.6	.0	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	92.0
TOT PCT	3.3	1.6	2.0	.0	.2	.0	.0	7.0	.9	.2	6.7	.1	.2	.0	85.1
TOT OBS:	1463														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	GRZL	PRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST SMOG	NO SIG WEA
0000	3.7	2.2	2.2	.0	.7	.0	.0	8.6	.6	.3	5.8	.0	.3	.1	84.6
0600	3.3	1.2	2.3	.0	.0	.0	.0	7.0	.3	.1	7.3	.0	.0	.0	89.0
1200	3.2	1.0	2.3	.0	.0	.0	.0	6.7	.6	.0	9.3	.3	.1	.0	82.8
1800	7.7	1.7	.7	.0	.0	.0	.0	4.8	2.1	.0	4.3	.0	.2	.0	86.7
TOT PCT TOT OBS:	3.3 1500	1.6	2.0	.0	.2	.0	.0	6.9	.9	.2	6.8	.1	.2	.0	85.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15
N	.3	6.8	8.7	1.7	.6	.0	18.3	13.7	13.3	16.2	19.4	21.7	21.0	23.7	16.4
NE	.3	2.0	3.1	.6	.0	.0	6.2	13.4	9.3	11.7	5.3	6.4	4.3	4.3	6.3
E	.0	1.3	1.4	.4	.0	.0	3.1	11.0	2.7	3.8	3.1	3.7	1.2	6.9	2.3
SE	.1	1.3	.7	.7	.0	.0	3.0	12.3	1.6	1.7	2.2	2.6	4.6	4.9	4.0
S	.3	2.2	3.7	1.1	.4	.0	6.6	14.9	7.4	3.6	6.3	6.7	6.8	2.3	10.8
SW	.1	4.4	8.3	4.3	1.1	.0	18.8	17.3	23.7	13.8	10.3	12.3	18.2	18.6	19.3
W	.8	6.3	17.3	6.4	1.3	.0	27.2	17.0	26.6	26.1	27.9	26.4	27.7	24.0	26.4
NW	.6	3.3	6.7	1.7	.7	.0	13.2	14.4	16.9	19.4	13.2	18.2	14.3	12.9	10.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.2	1.7	2.0	1.9	1.9	2.0	.9
TOT OBS							1632	13.3		323	137	222	182	310	120
TOT PCT	4.8	30.1	44.2	18.8	4.1	.1	100.0			100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	12
N	2.7	9.9	4.6	1.2	.0	18.3	13.7	16.0	19.8	21.3	17.3
NE	.6	3.3	1.9	.2	.0	6.2	13.4	6.3	9.2	4.6	7.3
E	.3	1.6	.6	.0	.0	3.1	11.0	3.2	4.0	2.6	3.0
SE	.4	1.6	.6	.1	.0	3.0	12.3	1.9	2.3	4.8	3.3
S	1.4	2.6	1.7	.1	.0	6.6	14.9	6.9	6.1	3.4	7.8
SW	2.6	7.9	5.7	2.3	.4	18.8	17.3	20.8	17.2	18.6	17.7
W	3.3	10.6	9.7	3.3	.1	27.2	17.0	26.7	27.2	26.8	26.8
NW	2.4	7.6	4.0	1.2	.0	13.2	14.4	17.4	15.0	13.9	13.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3					1.3	.0	.7	1.9	1.9	1.2
TOT OBS					1632		13.3	460	384	490	358
TOT PCT	13.3	43.5	29.1	9.4	.6	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

ANNUAL

AREA 0016 MAGELLAN STRAIT EAST
51.93 66.04

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	.7	4.3	24.9	51.7	14.9	3.2	.3	15.3	100.0	480
0600Z	1.9	4.7	39.3	39.2	15.4	3.2	.0	14.4	100.0	384
1200Z	1.9	1.9	31.6	40.4	18.3	5.6	.0	19.8	100.0	430
1800Z	1.2	2.0	28.8	44.8	18.4	4.9	.0	19.8	100.0	358
TOT								19.3		1632
PCT	1.8	3.3	30.1	44.2	16.8	4.1	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.4	6.7	3.9		3.4
NE	.2	.4	2.8	2.7		6.3
E	.1	.1	.8	1.1		4.7
SE	.2	.0	1.2	2.1		6.0
S	1.6	1.0	2.8	2.4		3.2
SW	6.7	4.7	6.8	3.4		4.1
W	9.0	5.2	9.6	3.3		4.0
NW	4.3	1.8	3.9	3.2		4.5
VAR	.0	.0	.0	.0		.0
CALM	.3	.1	.6	.3		2.9
TOT OBS					849	4.8
TOT PCT	26.2	14.7	35.1	24.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.7	.3	.3	1.0	2.9	1.3	.9	.4	.1	.5	9.2	
NE	.1	.1	.2	.8	1.4	.9	.2	.1	.1	.3	1.8	
E	.0	.0	.0	.0	.9	.3	.2	.0	.0	.0	.6	
SE	.0	.0	.0	.7	.5	.3	.4	.2	.0	.1	1.0	
S	.1	.0	.2	.8	1.1	.8	.7	.2	.0	.1	4.1	
SW	.0	.2	.0	.9	2.2	1.3	.9	.4	.2	.1	15.3	
W	.1	.0	.3	.6	2.8	1.4	.9	.2	.1	.9	20.0	
NW	.2	.1	.0	.8	1.8	.6	.7	.1	.3	.1	8.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.0	.1	.3	.9	.0	.0	.0	.4	
TOT OBS											849	
TOT PCT	1.0	.7	1.2	5.3	13.7	7.6	5.2	1.7	.8	1.8	60.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>50YD	>0
>4500	1.9	2.6	2.7	2.7	2.7	2.7	2.7	2.7
>3000	3.0	4.0	4.3	4.3	4.3	4.3	4.3	4.3
>1500	7.0	8.9	9.4	9.4	9.4	9.4	9.4	9.4
>1000	11.4	15.9	16.8	16.8	16.8	16.8	16.8	16.8
>800	20.6	29.4	30.7	30.9	30.9	30.9	30.9	30.9
>600	34.3	34.5	35.9	36.1	36.2	36.2	36.2	36.2
>500	35.1	35.7	37.1	37.3	37.4	37.4	37.4	37.4
>400	35.1	35.7	37.8	38.0	38.1	38.1	38.1	38.1
>300	35.3	36.0	38.3	38.3	38.6	38.9	39.0	39.0

TOTAL NUMBER OF OBS: 849

PCT FREQ NM <5/8: 61.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.2	13.6	13.8	9.4	6.8	6.6	6.6	7.4	17.1	.7	919

ANNUAL

PERIOD: (PRIMARY) 1970-1973
(OVER-ALL) 1921-1973

TABLE 8

AREA 0016 MAGELLAN STRAIT EAST
51.95 66.0WPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.4	.1	.1	.0	.0	.0	.2	.0	.0	.0	.7	
	TOT %	.4	.1	.1	.0	.0	.0	.2	.0	.0	.0	.8	
1/2<1	PCP	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.5	.1	.1	.0	.1	.0	.1	.2	.0	.0	1.1	
	TOT %	.6	.2	.2	.1	.1	.0	.1	.2	.0	.0	1.6	
1<2	PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.1	.1	.2	.3	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.8	
2<5	PCP	.1	.0	.1	.0	.0	.2	.3	.1	.0	.0	.7	
	NO PCP	.4	.2	.0	.1	.2	.5	.4	.7	.0	.1	2.1	
	TOT %	.5	.2	.1	.1	.2	.6	.7	.3	.0	.1	2.8	
5<10	PCP	.7	.4	.4	.2	.3	.4	.5	.5	.0	.2	3.4	
	NO PCP	4.8	2.3	1.1	1.2	1.9	3.5	7.8	4.9	.0	.4	29.9	
	TOT %	7.5	2.6	1.5	1.5	2.2	3.9	8.4	5.4	.0	.6	33.4	
10+	PCP	.4	.0	.1	.0	.2	.4	.1	.4	.0	.0	1.7	
	NO PCP	9.1	2.8	.5	1.5	4.0	13.9	17.4	8.6	.0	.7	58.8	
	TOT %	9.5	3.1	.6	1.5	4.1	14.3	17.4	9.0	.0	.7	60.5	
TOT OBS													
TOT PCT													
		10.4	6.3	2.6	3.2	6.7	18.9	27.0	19.2	.0	1.4	100.0	1454

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	11-21	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	22+	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.5	.2	.1	.0	.0	.0	.2	.0	.0	.0	.9	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.3	.2	.1	.0	.1	.0	.2	.1	.0	.0	1.0	
	11-21	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	.2	.2	.1	.1	.0	.2	.2	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.3	.3	.0	.0	.6	
2<5	0-3	.1	.0	.0	.0	.1	.1	.1	.1	.0	.1	.4	
	4-10	.2	.1	.0	.1	.1	.2	.1	.0	.0	.0	.8	
	11-21	.5	.2	.0	.0	.0	.2	.4	.2	.0	.0	1.3	
	22+	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.6	
	TOT %	.6	.3	.1	.1	.2	.6	.7	.3	.0	.1	3.3	
5<10	0-3	.1	.2	.0	.1	.1	.1	.0	.0	.0	.6	1.2	
	4-10	2.8	.8	.6	.6	.7	.6	2.1	1.9	.0	.0	10.0	
	11-21	3.3	1.4	.8	.3	.7	1.9	3.7	2.6	.0	.0	14.9	
	22+	1.0	.2	.1	.5	.7	1.3	2.0	.3	.0	.0	7.2	
	TOT %	7.4	2.6	1.4	1.5	2.1	3.9	8.4	5.4	.0	.6	33.3	
10+	0-3	.2	.3	.0	.0	.2	.3	.6	.1	.0	.7	2.4	
	4-10	3.3	.8	.6	.9	1.3	3.1	3.4	3.1	.0	.0	16.5	
	11-21	4.6	1.5	.2	.4	2.1	6.8	8.0	4.0	.0	.0	27.6	
	22+	1.2	.4	.1	.2	.6	4.2	5.3	1.7	.0	.0	13.7	
	TOT %	9.3	3.0	.9	1.5	4.1	14.3	17.4	8.9	.0	.7	40.2	
TOT OBS													
TOT PCT													
		10.5	6.3	2.6	3.2	6.7	18.9	27.1	19.2	.0	1.4	100.0	1467

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

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AREA 0016 MAGELLAN STRAIT EAST
51.55 66.04

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET) NH $\geq 4/8$ AND
OCCURRENCE OF NH $< 5/8$ BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 5499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH $< 4/8$ ANY HGT	TOTAL OBS
00003	1.2	.9	.5	5.2	12.1	6.0	5.6	1.8	.6	2.0	35.8	64.2	238
06009	1.1	.2	2.2	2.9	16.7	8.8	2.6	1.4	1.6	2.6	39.9	60.1	208
12015	1.9	.0	1.6	10.8	12.0	5.3	7.3	2.1	.6	.9	42.6	57.4	221
18021	.0	1.4	.2	2.9	14.6	9.3	3.6	.8	.4	2.2	35.5	64.5	229
TOT													890
PCT	.9	.6	1.2	5.2	13.8	7.3	9.0	1.6	.8	1.9	38.2	61.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	$< 1/2$	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	1.0	1.5	1.4	4.9	31.9	59.3	439
06009	.3	2.2	.7	3.6	36.8	56.3	353
12015	1.1	1.8	.6	2.7	35.9	57.9	391
18021	1.7	.8	.0	2.4	27.1	68.1	318
TOT							1501
PCT	1.0	1.5	.8	3.3	39.0	60.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET) NH $\geq 4/8$ BY HOUR

HOUR (GMT)	< 150 $< 50YD$	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH $< 5/8$ AND 5+	TOTAL OBS
00003	1.2	2.7	9.6	26.9	63.5	237
06009	1.1	3.6	7.9	33.1	59.0	198
12015	2.0	3.6	16.4	26.8	56.8	216
18021	.0	2.5	5.7	30.7	63.5	218
TOT						865
PCT	1.0	3.1	9.7	29.4	60.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.1	.8	.7	.1	.1	.5	
55/59	.0	.1	.3	.4	1.0	1.0	1.8	.4	3.0	
50/54	.0	.0	.1	.8	4.7	5.4	7.2	2.6	20.8	
45/49	.0	.0	.1	1.9	4.7	10.8	13.9	8.1	38.9	
40/44	.0	.0	.0	.6	2.3	7.0	7.8	9.4	27.3	
35/39	.0	.1	.0	.3	.9	1.6	1.7	2.7	7.3	
30/34	.0	.0	.0	.0	.0	.0	.0	.2	.2	
TOTAL									1398	100.0
PCT	.0	.2	.3	3.9	13.8	26.0	32.4	23.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.1	.1	.1	.0	.0
.8	.5	.0	.0	.2	1.0	1.3	1.1	.0	.1
4.2	1.4	.4	.7	.9	3.6	6.5	2.7	.0	.3
7.9	1.7	1.6	.8	2.3	6.3	10.6	6.8	.0	.7
5.1	1.6	.3	.9	1.2	3.3	8.4	4.0	.0	.3
.2	.2	.2	.2	1.3	2.2	2.3	.5	.0	.0
.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
18.2	5.5	2.7	2.6	6.3	18.7	29.3	15.3	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%	5%	MIN	MEAN	TOTAL OBS
00003	60	53	52	46	41	39	34	47.4	480															480
06009	59	51	50	43	41	39	34	46.6	404															404
12015	62	53	52	46	41	39	31	47.1	452															452
18021	62	54	52	47	42	40	31	48.6	373															373
TOT	62	55	52	46	41	38	31	47.4	1709															1709

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	14.9	22.9	33.8	23.8	80	410		410
06009	.0	1.3	11.2	22.4	37.6	27.3	82	340		340
12015	.2	3.3	12.6	27.4	30.1	26.4	80	367		367
18021	.0	7.3	14.8	10.8	27.9	18.2	77	312		312
TOT	1	63	210	367	481	307	80	1429		1429

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PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

TABLE 17

AREA 0016 MAGELLAN STRAIT EAST
51.55 66.0WPCT FREQ OF AIR TEMPERATURE (DEG F) AND TMP OCCURRENCE OF FOG (WITHOUT PRECIPITATION):
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	43 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FNG
14/16	.0	.0	.0	.0	.0	.0	.1	.0		2	.0	.1
11/13	.0	.0	.0	.0	.0	.2	.1	.0		3	.0	.4
9/10	.0	.0	.0	.0	.0	.2	.5	.2	.1	13	.0	1.0
7/8	.0	.0	.0	.0	.3	.6	1.3	.7	.0	46	.0	2.9
6	.0	.0	.0	.0	.5	.6	.9	.3	.0	34	.0	2.3
5	.0	.0	.0	.0	.9	1.1	1.1	.2	.0	53	.0	3.6
4	.0	.0	.0	1.2	1.5	2.5	1.0	.2	.0	91	.3	6.1
3	.0	.0	.0	1.3	3.6	3.6	1.7	.1	.0	134	.5	9.9
2	.0	.0	.2	2.0	2.8	2.7	1.3	.1	.0	143	.7	8.3
1	.0	.0	.1	3.3	3.1	3.3	.2	.1	.0	180	1.3	10.8
0	.0	.0	.6	4.5	6.4	2.5	.7	.0	.0	204	1.2	13.6
-1	.0	.2	1.1	4.0	3.8	1.7	.2	.0	.0	148	.8	10.1
-2	.0	.0	1.4	3.8	3.0	.8	.1	.0	.0	119	.8	8.3
-3	.0	.0	1.3	1.1	1.7	.3	.0	.0	.0	71	.1	4.6
-4	.0	.2	1.8	1.1	.8	.5	.0	.0	.0	60	.7	3.7
-5	.0	.1	1.6	.9	.6	.1	.0	.0	.0	42	.1	3.1
-6	.0	.4	1.1	.2	.2	.0	.0	.0	.0	23	.0	1.9
-7/-8	.0	.4	.4	.2	.0	.0	.0	.0	.0	19	.0	1.3
-9/-10	.2	.3	.2	.1	.0	.0	.0	.0	.0	9	.2	.6
-11/-13	.0	.3	.1	.0	.1	.0	.0	.0	.0	5	.0	.3
TOTAL										1423		
PCT	.2	2.0	10.0	24.1	31.3	20.7	9.3	2.1	.1	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					PCT	NE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.1	2.2	.4	.0	.0	2.7	.2	.1	.0	.0	.0	.3
1-2	.0	4.0	1.8	.0	.0	5.8	.0	.7	.0	.0	.0	1.3
3-4	.0	2.2	9.2	.2	.0	7.6	.0	.6	.9	.0	.0	1.5
4-6	.0	.2	1.9	.3	.0	2.9	.0	.0	.3	.4	.0	.7
7	.0	.0	.6	.3	.0	1.1	.0	.0	.4	.3	.0	.7
8-9	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.7	.0	.8	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	8.6	10.3	1.8	.4	21.4	.2	.9	2.4	.8	.0	4.1

HGT	E					PCT	SE					PCT
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
41	.0	.6	.3	.0	.0	.8	.0	.0	.3	.0	.0	.3
1-2	.0	.7	.3	.0	.0	1.2	.0	.5	.0	.0	.0	.3
3-4	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.3
5-6	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.4	.0	.0	2.6	.0	.3	.8	.4	.0	1.6

ARFA 0016 MAGELLAN STRAIT EAST
91.58 66.0W

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

M								W							
MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
41	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	.2	.3	.0	.0	.0	.5	.0	1.9	2.2	.0	.0	.0	4.1	
3-4	.0	.1	.5	.3	.0	.0	.8	.0	.7	3.2	1.4	.0	.0	5.3	
5-6	.0	.1	1.0	.0	.0	.0	1.1	.0	.1	2.8	.8	.1	.0	3.8	
7	.0	.0	.2	.0	.2	.0	.4	.0	.0	.8	1.8	.3	.0	2.8	
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.3	1.8	.1	.0	2.0	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.9	.1	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	2.1	.8	.2	.0	4.2	.0	3.8	9.3	6.7	.9	.0	20.7	

M								W								TOTAL PCT
MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
41	.0	.9	.0	.0	.0	.0	1.4	.0	.2	.0	.0	.0	.0	.2		
1-2	.0	1.2	2.4	.0	.0	.0	3.6	.0	1.3	1.4	.0	.0	.0	2.9		
3-4	.0	2.1	4.8	1.1	.0	.0	8.2	.0	2.9	2.7	.3	.0	.0	5.9		
5-6	.0	.2	3.6	2.3	.0	.0	6.3	.0	.0	.4	.1	.0	.0	.7		
7	.0	.0	3.0	2.2	.7	.0	5.8	.0	.1	.3	.4	.1	.0	1.3		
8-9	.0	.1	.4	.9	1.3	.0	2.9	.0	.0	1.3	.2	.3	.0	1.9		
10-11	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.2	.0	.2		
12	.0	.0	.0	.4	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	4.4	14.2	8.1	2.8	.0	30.2	.0	4.8	6.7	1.2	.5	.0	13.2	98.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HBT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT GSS
<1	2.4	3.9	1.1	.0	.0	.0	9.4	
1-2	1.8	10.1	9.4	.0	.0	.0	21.0	
3-4	.3	8.4	17.6	3.2	.0	.0	29.3	
5-6	.0	.3	10.7	4.3	.1	.0	15.6	
7	.0	.1	9.3	3.3	1.2	.0	11.9	
8-9	.0	.2	2.6	3.1	1.8	.0	7.7	
10-11	.0	.0	.1	2.6	.3	.0	3.0	
12	.0	.0	.0	.3	1.1	.0	1.6	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.2	23.1	46.8	19.1	4.8	.0	100.0	447

PERIOD: (OVER-ALL) 1952-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1929-1973
(OVER-ALL) 1921-1973

AREA 0016 MAGELLAN STRAIT EAST
51.95 66.7W

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	1.4	2.6	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
53/54	10.1	5.6	3.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	28	1.5
51/52	19	14.3	14.1	4.2	1.9	.0	.0	.0	.0	.0	.0	.0	60	3.2
49/50	25.7	36.8	37.7	21.7	6.6	.0	.8	2.7	1.7	.0	2.0	13.7	138	8.2
47/48	25.7	36.8	34.3	49.2	20.8	10.5	.0	1.4	7.6	7.5	22.4	26.6	462	24.5
45/46	12.2	5.7	7.7	14.5	38.7	36.8	12.2	2.7	9.2	11.3	37.4	23.4	293	15.5
43/44	.4	.0	.4	2.6	19.8	35.5	40.7	33.8	12.6	44.0	26.5	5.5	254	13.4
41/42	.0	.0	.0	.5	9.4	13.2	33.3	35.1	30.5	23.3	4.8	.0	189	10.0
39/40	.0	.0	.0	.0	1.9	2.6	9.8	18.9	20.2	7.8	.0	.0	68	3.4
37/38	.0	.0	.0	.0	.9	.0	3.3	5.4	9.2	.0	.0	.0	20	1.1
35/36	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	1	.1
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
25/26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
23/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
21/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
19/20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
17/18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
15/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
13/14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
11/12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
5/6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
3/4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
1/2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	237	269	284	189	106	76	123	74	119	141	147	124	1889	100.0
MEAN	49.6	49.2	49.0	47.7	45.3	44.1	42.5	41.9	41.9	42.8	45.6	47.9	45.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	999	996	1000	999	1001	999	1001	998	999	231
FEB	998	997	999	998	1000	999	998	998	996	145
MAR	1001	1004	1003	1003	1003	1006	1002	1002	1003	256
APR	1007	1008	1006	1007	1009	1008	1003	1008	1006	166
MAY	1003	1012	1003	1007	1002	1008	1001	1007	1004	93
JUN	1007	1007	1008	1004	1000	1000	1006	1001	1004	80
JUL	1003	1004	1005	1004	1007	1001	1002	1001	1003	120
AUG	1002	1007	1007	1001	997	1008	1002	1013	1003	78
SEP	1009	1008	1005	1004	1003	1012	1010	1012	1008	92
OCT	1002	1001	1000	1003	1004	1003	1003	1001	1002	126
NOV	1005	997	1001	1004	1003	1005	1001	1003	1003	97
DEC	1000	993	1000	1010	996	1001	998	995	999	92
ANN	1003	1003	1003	1004	1001	1004	1002	1003	1002	1426
CBS	325	138	221	163	308	118	225	128		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	977	977	984	994	999	1006	1014	1020	1023
FEB	980	981	985	993	998	1004	1012	1016	1018
MAR	984	985	987	997	1003	1008	1018	1025	1029
APR	985	985	991	1000	1006	1014	1019	1027	1029
MAY	979	979	986	997	1005	1012	1021	1028	1030
JUN	982	982	988	997	1004	1011	1018	1030	1031
JUL	974	982	984	997	1003	1007	1020	1028	1030
AUG	974	974	979	995	1005	1013	1019	1022	1023
SEP	975	975	984	997	1008	1016	1030	1030	1031
OCT	977	978	985	993	1003	1012	1019	1027	1028
NOV	977	977	984	993	1007	1009	1023	1023	1025
DEC	979	979	983	990	1000	1007	1015	1018	1021

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.		

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Volume	Area	Name	Approximate Central Location
1		Georgetown	02.5°N 57.5°W
2		Cayenne	02.5°N 52.2°W
3		Amazon Delta	01.3°N 47.3°W
4		Fortaleza NW	01.1°S 41.1°W
5		Natal	04.2°S 34.5°W
6		Recife	09.1°S 33.7°W
7		Salvador	14.4°S 36.5°W
8		Victoria NE	19.0°S 37.5°W
9		Rio de Janeiro	23.2°S 40.8°W
10		Florianopolis	27.0°S 49.1°W
11		Porto Alegre	31.0°S 48.4°W
12		Buenos Aires	35.3°S 53.5°W
13		Bahia Blanca	40.0°S 58.2°W
14		Rosario	44.1°S 62.1°W
15		Puerto Deseado	48.0°S 64.0°W
16		Magellan Strait East	51.5°S 65.0°W
17		Yierra Del Fuego	50.0°S 66.0°W
18		Falkland Islands	51.9°S 58.9°W
19		South Georgia	54.6°S 37.0°W
20		Tristan da Cunha Group	39.0°S 10.4°W
21		Trinidad	20.3°S 29.0°W
22		St. Helena	15.6°S 05.5°W
23		Ascension	07.5°S 14.5°W
24		St. Peter and Paul Rocks	01.0°S 23.5°W